

# Electro Rent Test and Measurement Solutions A Leading Suite of 5G Products

## What is 5G?

5G is the fifth-generation of mobile network technology. It is set to feature exponential improvements in bandwidth, speed, reliability, and latency. Leading companies today are testing the innovations and technologies that will power our 5G future.

## Why Electro Rent?

Electro Rent is enabling a successful transition to 5G by offering first-to-market solutions at every stage of the test lifecycle. We provide semiconductor, network, equipment, and device manufacturers with efficient solutions that can reduce testing and measurement costs.

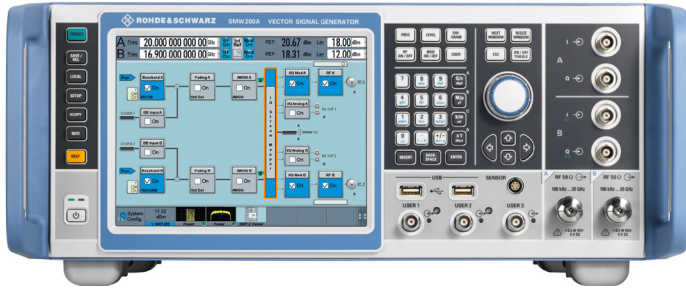
- Our large inventory ensures that you get the equipment you need, when you need it.
- We stand behind our products with support and service; our calibration facilities are world class.
- If there's anything you don't like, just let us know and we'll do our best to resolve it to your satisfaction.
- Our advisors recommend a variety of easy-to-start rental and financing programs to fit your situation.

We proudly offer 5G test solutions from Rohde & Schwarz and Keysight, world leaders in RF test and measurement.

Let us help you on your journey to a 5G future.

## 5G Signal Creation

### Rohde & Schwarz SMW200A Vector Signal Generator, 100kHz to 40GHz



Electro Rent Part No. RS-SMW200A-40

The SMW200A is the vector signal generator for the most demanding 5G applications. It offers flexibility, performance, and intuitive operation for generating complex, digitally-modulated signals of high quality for 5G LTE Advanced to 2G applications.

#### Applications

- Pre-5G NR Signal Generation
- Antenna Array Testing - Conducted and Over-the-Air
- 5G Waveform Candidates

#### Features

- Single side band phase noise typ. -135dBc @1GHz, 20kHz carrier offset
- High output power up to +18dBm (PEP)
- Analog and digital modulation
- Cellular modulations

### Keysight M9383A PXIe Microwave Signal Generator, 1 MHz to 44 GHz



Electro Rent Part No. KT-M9383A-F44

The M9383A is a modular microwave signal generator test solution for design validation. It can be efficiently leveraged into a manufacturing environment with the flexibility to solve today's pre-5G LTE Advanced requirements and can be upgraded to your future test needs.

#### Applications

- Modular test solution for design validation that can be efficiently leveraged into manufacturing
- Flexibility to solve your immediate test needs, but upgradable for what comes next – whether that's more frequency coverage or a rapid shift to high volume production.
- Pre-5G signal confidence you need with 1% EVM @ 28 GHz, 800 MHz bandwidth

#### Features

- Single side band phase noise typ. -137dBc @1GHz, 20kHz carrier offset
- High output power @1GHz, -90 to +19dBm
- Analog and digital modulation
- Cellular modulation formats from 2G to Pre-5G LTE Advanced

## Keysight E8267D PSG Vector Signal Generator, 100kHz to 44GHz



Electro Rent Part No. KT-E8267D-544

The E8267D vector signal generator is used to test advanced receivers, with realistic wideband radar, EV, Satcom, and 5G applications. It offers up to 4GHz of bandwidth (with external AWG see M8190A), allowing you to simulate complex electromagnetic environments and reduce complex signal creation times.

### Applications

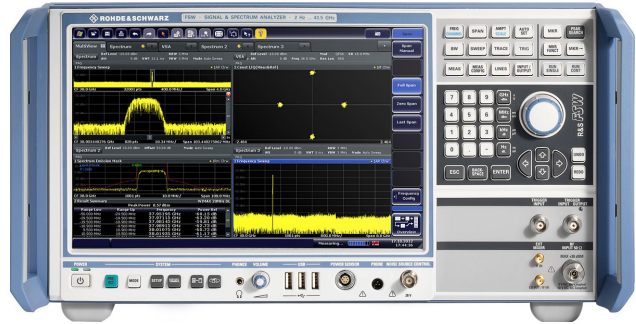
- Waveform playback and real-time
- Antenna Array Testing - Conducted and Over-the-Air
- 5G Waveform Creation with signal studio application
- Signal optimizer with K3101A

### Features

- Single-side-band phase noise typ. -143dBc @1GHz, 20kHz carrier offset
- High output power @1GHz, -130 to +21dBm
- Analog and digital modulation
- Cellular modulation formats from 2G to Pre-5G LTE Advanced

## 5G Signal Analysis

## Rohde & Schwarz FSW43 Signal and Spectrum Analyzer, 2Hz to 43.5GHz



Electro Rent Part No. RS-FSW43

The FSW43 Signal and spectrum analyzer is designed with 5G measurement analysis in mind. It offers low phase noise, wide analysis bandwidth (2GHz) for complex LTE Advanced applications, with an easy to use GUI.

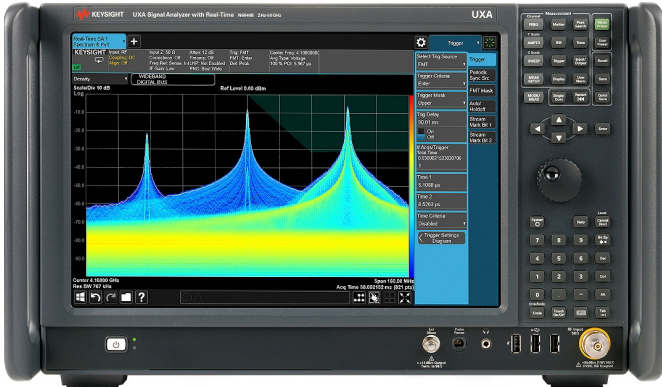
### Applications

- Used in aerospace and defense applications (ASD)
- Wideband communication systems for military and commercial use
- 5G Waveform analysis
- Development of oscillators for radar systems and complex LTE Advanced applications

### Features

- Analysis bandwidth – 10MHz standard, upgradable to 2GHz
- Displayed average noise level (DANL) +154dBm at 2GHz (1Hz resolution)
- SSB phase noise at 10kHz offset -134dBc
- Cellular modulation analysis from 2G to Pre-5G LTE Advanced

## Keysight N9040B UXA Signal Analyzer, Multi-touch, 2 Hz to 50 GHz



Electro Rent Part No. KT-N9040B-550

The N9040B Signal analyzer offers real-time spectrum performance analysis up to 1GHz for deeper views of complex and challenging 5G signals. Clean spectral purity with leading phase noise measurements. Extendable frequency range to 110GHz with external smart mixers.

### Applications

- Utilize application measurements that range from parametric to wireless measurements including 5G LTE Advanced, WCDMA, phase noise, noise figure, analog demodulations
- 5G Waveform analysis and vector analysis with VSA software 89601B
- Satellite, radar, EW, fast-hopping signal analysis

### Features

- Analysis bandwidth – 25MHz standard, upgradable to 1GHz
- Real-time bandwidth optional to 510MHz
- Displayed average noise level (DANL) +174dBm at 1GHz (1Hz resolution)
- SSB phase noise at 10kHz offset -136dBc
- Cellular modulation analysis from 2G to Pre-5G LTE Advanced
- 5G NR (new radio) with N9085EMOE application software



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