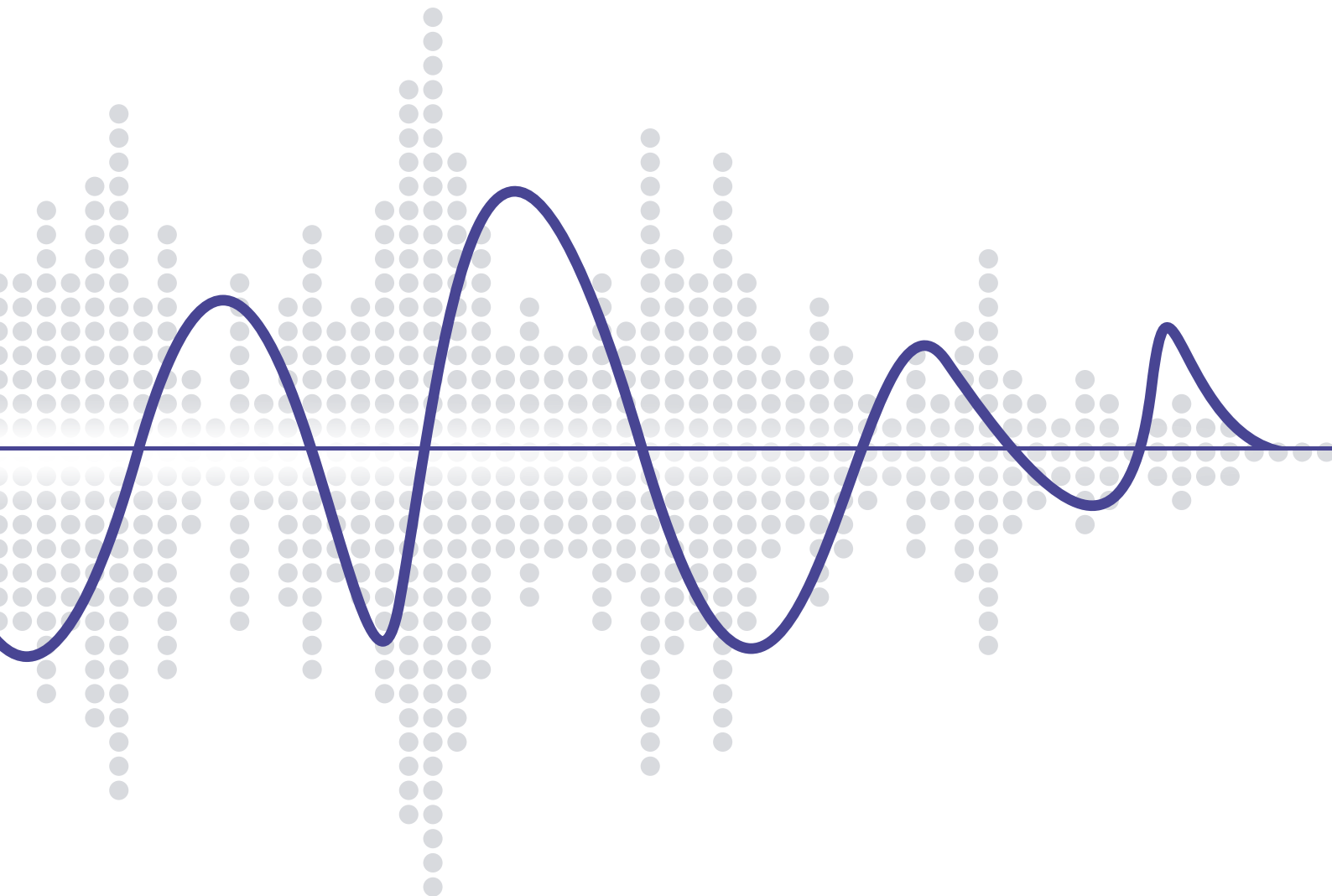


# RF Test Equipment Catalog

Preferred Qualcomm supplier. Ready to deploy.



## RF Test & Measurement – There from the Beginning

For more than 50 years, Electro Rent has been providing RF test equipment to industry, enabling our customers to design and test products for aerospace & defense, satellite communications, semiconductors, automotive, mobile communications, and more.

## Your Premier Test Equipment Partner

We know what it takes to deliver the right configurations on time, with rental and financial solutions that make sense for your organization.

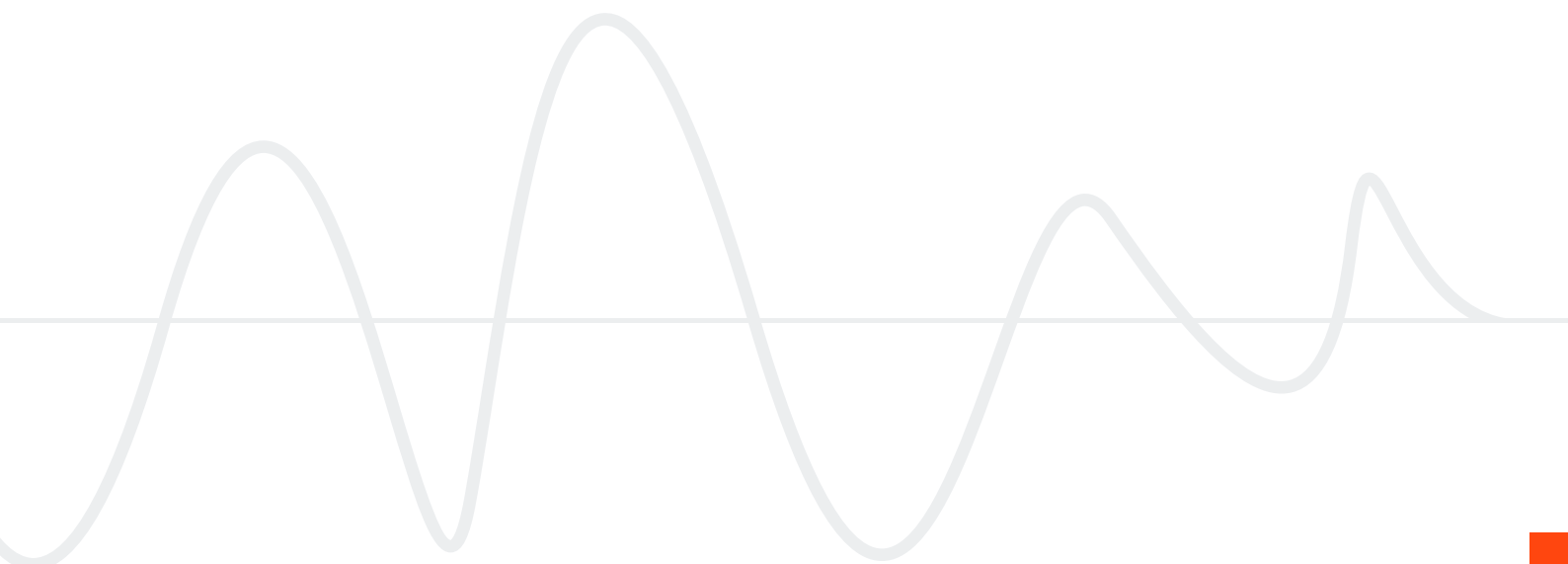
Through our global fleet of \$1B worth of electronic test equipment assets from more than 200+ manufacturers, our solutions help companies solve test and measurement in today's fast-moving business environment.

## Experience Our Extensive Inventory

Browse our catalog for the most popular RF test equipment offerings. If you don't see what you need, give us a call. We have thousands of additional models in stock and new acquisitions arrive all the time.

# Table of Contents

Global Reach	1
Rental Solutions	2
Spectrum Analyzers	3
Network Analyzers	5
Cal Kits	7
Generators	8
Vector Signal Generators	9
Oscilloscopes	10
Phase Noise Testing	12
Power Meters / Sensors	13
Handheld Spectrum Analyzers	14
Full Range of Services	15
Contact Directory	16



## Global Reach, Local Support

Supported by our inventory, we help businesses around the world with unrivalled local support, logistics hubs, and expertise.

Our innovative test procurement solutions are designed to integrate seamlessly into your existing operations. We work with you to drive down your overall cost of testing by increasing productivity while reducing equipment management costs.

50 years of innovation	22 locations worldwide
600 global team members	180 test experts
\$1B inventory	60k+ instruments
200+ manufacturers	12k product lines

## Industry-Leading Test Equipment Rental Solutions

The ultimate in flexibility, our rental packages provide access to the latest test equipment in a fast and affordable way. With the world's largest inventory and constant investment to keep our product portfolio up to date, renting helps you access the latest equipment, when and where you need it.

### **FULL FLEXIBILITY**

Upgrade, extend, or end your rental as needed

### **EXTENSIVE INVENTORY**

Thousands of instruments are in stock and ready to rent today

### **PAY FOR USE, NOT FOR LIFE**

Rent from as little as one week, with low-cost, long-term plans available

### **MINIMIZE OWNERSHIP COSTS**

Maintenance and calibration included

### **LOCAL PRESENCE**

Local logistics hubs, as well as sales and support offices

### **FAST DELIVERY**

Delivery typically within 24-48 hours of your order

### **EXPERT SUPPORT**

Support and advice from our team of specialists, supported by our OEM partners

### **THE LATEST TECHNOLOGY**

Our updated and refreshed inventory ensures leading products from world-class manufacturers

We offer independent advice on products from 200+ world-class manufacturers.





**Keysight N9041B** | UXA Signal Analyzer; 2 Hz to 110 GHz

- Analysis Bandwidth to 1 GHz for 5G, 802.11ad & 802.11 be and Automotive Radar
- DANL of -150 dBm/Hz >50 GHz
- Dual RF Inputs: 2.4 mm to 50 GHz, 1.0 mm to 110 GHz
- Real-time Streaming up to 40 MHz



**Rohde & Schwarz FSW26** | Signal and Spectrum Analyzer; 2 to 26.5 GHz

- Analysis Bandwidth to 2 GHz
- Advanced Radar Analysis Functions
- DANL of -159 dBm/Hz @ 2 GHz
- Phase Noise: -140 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Popular Model with Over 50 Configurations



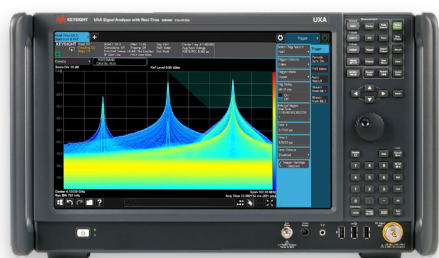
**Keysight N9030B** | PXA Signal Analyzer

- Frequency Ranges: 2 Hz to 3.6, 8.4, 13.6, 26.5, 44, 50 GHz
- Analysis Bandwidth to 510 MHz
- Phase Noise: -136 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Popular Model with Over 100 Configurations



**Keysight N9032B** | PXA Signal Analyzer; 2 Hz to 26.5 GHz

- Analysis Bandwidth to 2 GHz
- LNA with Preamp for Low-Level Signals and Noise Figure
- Low DANL (-174 dBm) for better EVM sensitivity
- Preconfigured with 5G NR, and PowerSuite Measurements



**Keysight N9040B** | UXA Signal Analyzer; 2 Hz to 50 GHz

- Real-time I/Q Data Streaming
- Analysis Bandwidth to 2 GHz
- Phase Noise: -136 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Over 50 Configurations available.



**Rohde & Schwarz FSW50** | Signal and Spectrum Analyzer; 2 Hz to 50 GHz

- DANL of -129 dBm at 50 GHz
- Full Band 50 GHz Preamp Available
- Phase Noise: -140 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Multiple Software Options Available for Rental



**Keysight N9021B** | MXA Signal Analyzer; 10 Hz to 50 GHz

- Real-time I/Q Data Streaming
- Analysis Bandwidth to 510 MHz
- Phase Noise: -136 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)



**Rohde & Schwarz FSV3044** | Signal and Spectrum Analyzer; 10 Hz to 44 GHz

- Analysis Bandwidth of 200 MHz
- DANL < -162 dBm
- Phase Noise: -114 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)



**Keysight N9020B** | MXA Signal Analyzer

- Frequency Ranges: 2 Hz to 3, 8, 13, 26.5, 32, 44, 50 GHz
- Analysis Bandwidth of 160 MHz
- Phase Noise: -114 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Popular Model with Over 70 Configurations



**Keysight N9000B** | CXA Signal Analyzer

- Economy Version of X-Series Signal Analyzers
- Frequency Ranges: 9 kHz to 3, 7.5, 26.5 GHz
- Tracking Generator Option

**SCAN  
QR CODE**

We have thousands more instruments in our comprehensive equipment inventory.

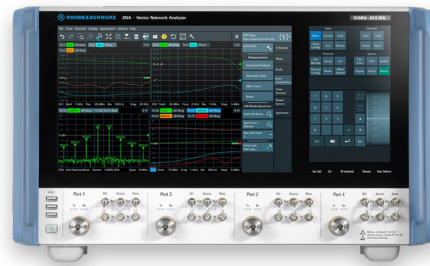
**Scan QR Code to view our full selection.**





**Keysight N5245B** | PNA-X Microwave Network Analyzer;  
900 Hz/10 MHz to 50 GHz

- 2-Port and 4-Port Versions with Configurable Test Sets
- Second Source, Pulse Modulators, Receiver Attenuator Configurations Available
- Separate Noise Receiver Available with Vector Correction
- Compatible E-Cal Calibration Kits Available



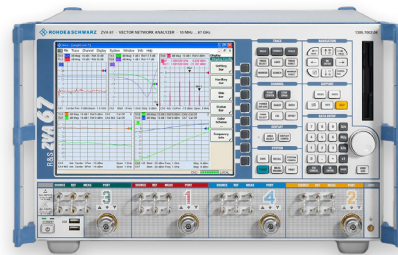
**Rohde & Schwarz ZNA26** | Vector Network Analyzer;  
10 MHz to 26.5 GHz

- 2-Port and 4-Port Versions with Configurable Test Sets
- Up to 4 Sources Available
- High Dynamic Range 147 dB with Receiver Attenuators
- Internal Pulse Modulators and Pulse Generators
- Wide Range of Software Options Available for Rental



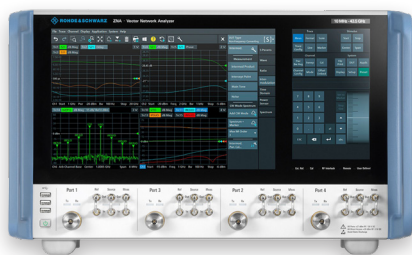
**Keysight N5244B** | PNA-X Microwave Network Analyzer,  
10 MHz to 43.5 GHz

- 2-Port and 4-Port Versions with Configurable Test Sets
- Optional Second Source, Pulse Modulators, Receiver Attenuators
- Separate Noise Receiver Available with Vector Correction
- High Dynamic Range: 134 dB at 20 GHz at Test Port
- Multiple Software Options Available for Rental



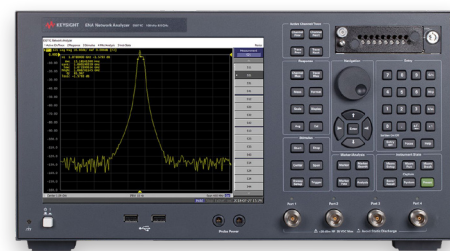
**Rohde & Schwarz ZVA67** | Vector Network Analyzer;  
Four Ports, Four Sources, 67 GHz

- High Output Power up to +18 dBm
- Receiver and Generator Attenuators and Pulse Modulators / Generators
- Wide Dynamic Range >140 dB for Fast and Accurate Measurements
- Virtual and True Differential Measurement Modes
- Simultaneous Measurement of Noise Figure And S-Parameters



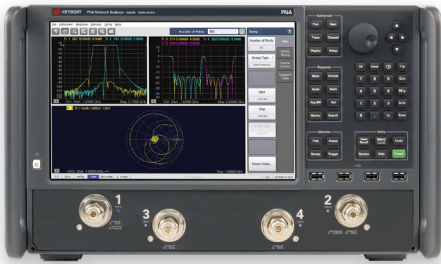
**Rohde & Schwarz ZNA43** | Vector Network Analyzer,  
4 ports, 10 MHz to 43.5 GHz

- Up to 4 Sources Available with Attenuators
- High Dynamic Range 147 dB with Receiver Attenuators
- Internal Pulse Modulators and Pulse Generators
- Full Touchscreen Interface



**Keysight E5071C** | ENA Series Network Analyzer

- Low-Cost VNA with Frequencies: 4.5, 8.5, 20 GHz
- 2 and 4-Port Versions
- Popular Model with Over 100 Configurations Available
- TDR Options for Signal Integrity Measurements



**Keysight N5225B** | PNA Microwave Network Analyzer, 10 MHz to 50 GHz

- 2 and 4-Port Version with Configurable Test Set
- Dynamic Range > 127 dB with High Output Power +13 dBm
- Optional Bias-Tees, Pulse Generators and Modulators



**Keysight N5242B** | PNA-X Microwave Network Analyzer, 10 MHz to 26.5 GHz 2-Port

- Dynamic Range of 130 dB @ 20 GHz
- Output Power +13 dBm
- Multiple Software Options Available for Rental



**Keysight E5080B** | ENA Series Network Analyzer

- 2 and 4-Port Versions
- Maximum Frequency of 9, 20 and 53 GHz
- Low Trace Noise of 0.0015 dB rms
- TDR Options for Signal Integrity Testing



**Keysight E5061B** | ENA Series Network Analyzer / Impedance Analyzer, 100 kHz to 3 GHz

- 3 GHz Network Analyzer and Impedance Analyzer in One Unit
- Gain-Phase Test Port, 5 Hz to 30 MHz for Impedance Measurements
- Compatible with Keysight Component Measurement Fixtures

**JUST ARRIVED**

**The NEW ENA-X Series Vector Network Analyzer**

**Keysight E5081A ENA-X Vector Network Analyzer**

Accelerate 5G and satellite communication component characterization with the Keysight E5081A ENA-X VNA. This new VNA series includes a 20 GHz and 44 GHz frequency range and provides options for low-noise receivers for noise figure measurements. Keysight's new spectral correlation technique allows fast EVM measurements on a mid-priced VNA.





**Keysight N4692D** | Electronic Calibration Module (ECal); 2.92 mm, 2-Port, 40 GHz

- Available in Male/Male (Option M0M), Female/Female (Option F0F), and Male/Female (Option M0F) Connector Configurations
- Frequency Coverage from 10 MHz to 40 GHz or DC to 40 GHz (Option 0DC)
- Rentals Include Torque Wrenches for Properly Connecting Standards



**Keysight 85092C** | RF Electronic Calibration Module (ECal); Type N, 2 Port, 300 kHz to 9 GHz

- Fast Full 2-Port Calibration with a Single Connection
- Simple Non-Insertable Device Calibration
- USB Interface for Direct Control with PNA and ENA Series of Network Analyzers
- Rentals Include Torque Wrenches for Properly Connecting Standards



**Rohde & Schwarz ZN-Z54** | Calibration Unit; 2 Ports, 2.92 mm, Female, 9 kHz to 40 GHz

- Automatically Detected Via USB Connection
- Rentals Include Torque Wrenches for Properly Connecting Standards



**Keysight N4693D** | Electronic Calibration Module (ECal); 2.4 mm, 2-Port, 50 GHz

- Available in Male/Male (Option M0M), Female/Female (Option F0F), and Male/Female (Option M0F) Connector Configurations
- Frequency Coverage from 10 MHz to 50 GHz or DC to 50 GHz (Option 0DC)
- Rentals Include Torque Wrenches for Properly Connecting Standards

### Calibration Kits

Model	OEM	Description	Connector	Frequency	Rental Torque Wrenches
85032F	Keysight	Standard Mechanical Calibration Kit	N-Type	9 GHz	No
85033E	Keysight	Standard Mechanical Calibration Kit	3.5 mm	9 GHz	Yes
85052D	Keysight	Economy Mechanical Calibration Kit	3.5 mm	26.5 GHz	Yes
ZN-Z52	Rohde & Schwarz	Calibration Unit, 4-Port	3.5 mm	26.5 GHz	Yes
85056D	Keysight	Economy Mechanical Calibration Kit	2.4 mm	50 GHz	Yes
85059B	Keysight	Precision Calibration Kit	1.0 mm	120 GHz	Yes



**Keysight E8257D** | PSG Analog Signal Generator

- Popular Model with Over 250 Configurations
- Frequency Range: 250 kHz to 20, 40, 50 and 67 GHz
- Low Phase Noise: -138 dBc/Hz @ 1 GHz Carrier (10 kHz Offset) to Address Doppler Radar, ADC and Receiver-Blocking Tests
- High Power Options Available for +30 dBm Output
- Characterize Devices and Circuits by Adding AM, FM,  $\phi$ M and Pulse Modulation to Your Signal



**Rohde & Schwarz SMA100B** | Signal Generator

- Frequency Range: 8 kHz to 3, 6, 12.75, 20, 31.8, 40, 50 and 67 GHz
- Exceptionally Low Harmonics
- Maximum Output Power Exceeds +30 dBm Across Wide Frequency Range



**Keysight N5183B** | Signal Generator

- Frequency Options: 20, 31.8 and 40 GHz
- Phase Noise: -130 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Settable range +3- to -135dBm (with options 1E1 and 1EA)
- Modulation Types Available: AM, FM,  $\phi$ M and Pulse



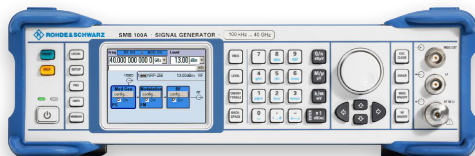
**Rohde & Schwarz SMA100A** | Signal Generator

- Frequency Range: 100 kHz to 12.75, 20, 31.8 and 40 GHz
- SSB Phase Noise of -108 dBc/Hz (typ.) at 10 GHz and 20 kHz Offset
- Analog Modulations with AM, FM,  $\phi$ M and Pulse Modulation Supported



**Rohde & Schwarz SMB100B** | Signal Generator

- Frequency Range: 8 kHz to 1 GHz, 3 or 6 GHz
- Very Low Wideband Noise of < -153 dBc (typ.) at 15 MHz < f ≤ 6 GHz and an Offset of 30 MHz
- Ultra-high Output Power of +34 dBm at 1 GHz



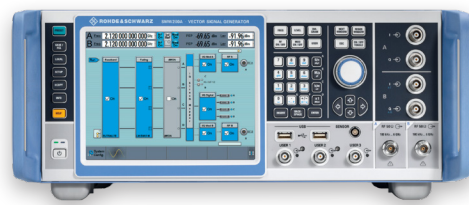
**Rohde & Schwarz SMB100A** | Signal Generator

- Frequency Range: 100 kHz to 12.75, 20, 31.8 and 40 GHz
- SSB phase noise of -108 dBc (typ.) at 10 GHz and 20 kHz offset
- Analog Modulations with AM, FM/ $\phi$ M and Pulse Modulation Supported



**Keysight E8267D** | PSG Vector Signal Generator

- Frequency Ranges: 20, 32, 44 GHz
- Ultra-Low Phase Noise Options Delivers -143 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Vector Support for Cellular, Wi-Fi, Video Broadcasting, SATCOM and More
- Popular Model with Over 125 Configurations



**Rohde & Schwarz SMW200A** | Vector Signal Generator

- Multiple RF Paths with Frequency Ranges: 3, 6, 20, 40, 44 GHz
- Low Phase Noise Options Delivers -150 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Popular Model with Over 125 Configurations
- Modulation Bandwidths up to 2 GHz



**Keysight N5182B** | MXG Series Vector Signal Generator

- Frequency Range: 9 kHz to 3, 6 GHz
- Low Phase Noise Options Delivers -146 dBc/Hz @ 1 GHz Carrier (20 kHz Offset)
- Output Power of +27 dBm, Low EVM of 0.4% (802.11ac/LTE)
- Real-time Signal Simulation Options
- Popular Model with over 125 Configurations



**Rohde & Schwarz SMBV100B** | Vector Signal Generator

- Frequency Range: 8 kHz to 3, 6 GHz
- High Power Option to +33 dBm
- Generation of Communications Signals: 5G NR, LTE, WLAN
- GNSS with Constellation Simulation



**Keysight N5172B** | EXG Series Vector Signal Generator

- Frequency Range: 9 kHz to 3, 6 GHz
- Phase Noise Options Delivers -122 dBc/Hz @ 1 GHz Carrier (20 kHz Offset)
- Output Power of +27 dBm, Low EVM of 0.4% (802.11ac/LTE)
- Modulation Bandwidth of 160 MHz



**Tektronix AWG70002B** | Arbitrary Waveform Generator; 2 Channels at 25 Gs/s

- 10-bit Vertical Resolution, 16 GS Waveform Memory Per Channel
- Generate Wideband RF Signals Up To 20 GHz
- Suitable for Radar with Options for Pulsed Waveforms and Impairments



**Keysight UXR-Series** | Infiniium UXR Real-Time Oscilloscope; Up to 4 Channels, 5 to 110 GHz

- Up to 2G Memory with 256 GS/s on All Channels
- 1mm Input Connectors on 4 Phase-Coherent Channels
- Real-time Digital Down Conversion with 2.16 GHz Bandwidth
- Applications: USB4 v2, PCIe Gen5/6, DDR4/5, Phase Noise



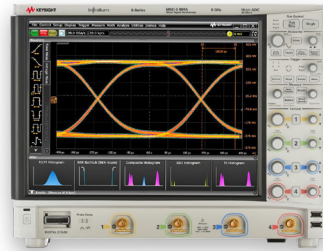
**Tektronix MSO68B** | Mixed Signal Oscilloscope; 8 Channel to 10 GHz

- Frequency Range: 1, 4, 6, 8, 10 GHz Models
- Low Noise Inputs: < 1.25 mV of Noise at 50 mV/div at 10 GHz
- Built-In FFT Spectrum Analysis on all Channels
- 50 GS/s on 2-Channels, 25 GS/s on 4-Channels



**Rohde & Schwarz RTP164** | High Performance Digital Oscilloscope; 4 Channel, 16 GHz

- Sample Rate: 40 GS/s with 2G Record Length
- Real Time De-Embedding with S-Parameters in Hardware
- Software Options for: USB3.2, 10G Ethernet, MIPI D-PHY, DDR3/4, Automotive Ethernet



**Keysight MSOS804A** | Infiniium S-Series Digital Oscilloscope; 4-Channels, 8 GHz

- Sample Rate: 20 GS/s with 100 M/Chan, upgradeable up to 400 M/Chan
- 10-Bit ADC with 16-Bits in High Resolution Mode
- 260  $\mu$ V Full Bandwidth Noise Floor



**Keysight MXR608A** | Infiniium MXR-Series Real-Time Oscilloscope; 8 Channels, to 6 GHz

- Sample Rate: 16 GS/s on 8 Channels, 200M Record Length per Channel
- 10-Bit ADC with 16-Bits in High Resolution Mode
- Low Noise: 1mV/div 43  $\mu$ V, Low Jitter: 120 fs rms
- Real Time Spectrum Analysis on 8 Scope Channels

**Scopes As RF Test Equipment?**

Yes. We included scopes on purpose. As oscilloscope technology advances, they are seeing more use in RF labs everywhere. The bandwidth increases alone are enough to earn them an important role in demodulating signals for 5G, 6G and SATCOM communications.

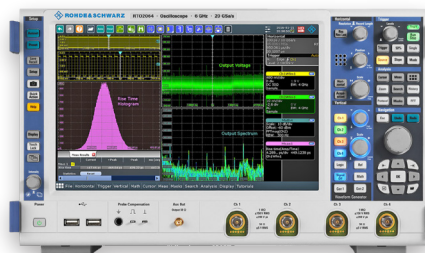


With additional unique capabilities that include digital down-conversion, real-time spectrum analysis, and multi-channel FFTs, scopes have earned their place in the RF testing world. If you don't see what you need, give us a call. We have models for every application you can think of.



**Tektronix MSO58B** | Mixed Signal Oscilloscope; 8-Channel

- Frequency Range: 350, 500 MHz, 1, 2 GHz Models
- Record Length: 500 M
- Built-In FFT Spectrum Analysis on all Channels
- Serial Decode Trigger Support for: I2C, SPI, USB 2.0, Ethernet, CAN, LIN,
- Perform RF Measurements: Channel Power, ACPR, OBW



**Rohde & Schwarz RTO2064** | Digital Oscilloscope; 4 Channels, 6 GHz

- Record Length: 2 G sample @ 20 GS/s
- Digital Triggering on 16-Bit High-Definition Signals
- Real Time De-embedding with S-Parameters in Hardware



**Rohde & Schwarz RT064** | Digital Oscilloscope; 4 Channels

- Frequency Range: 4, 6 GHz
- Sample Rate: 20 GS/s, 1 M Waveforms per Second
- Digital Triggering on 16-Bit High-Definition Signals
- Software Options Include: Power Analysis, Jitter Analysis, De-embedding, TDR



**Tektronix DPS75004SX** | AT1 Performance Oscilloscope System, 33/50 GHz

- 2 Channels @ 50 GHz 200 GS/s, or 4 x 33 GHz 100 GS/s
- > 25 GHz Edge Trigger
- Software Available for PCIe Gen 5/6 Debugging and Compliance Testing

**FEATURED**

**NI Instrument Portfolio**

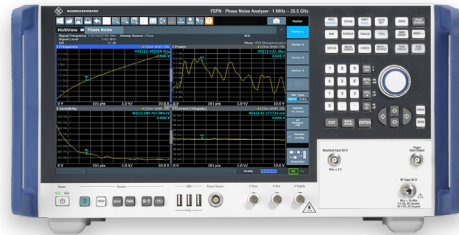
The National Instruments portfolio from Electro Rent includes RF and Microwave Generators, RF and Microwave Analyzers, PXI Vector Signal Transceivers, PXI Arbitrary Waveform Generators and related PXI platform instruments.





**Keysight E5055A** | SSA-X Signal Source Analyzer, 10 MHz to 8 GHz

- Fast Cross Correlation Measurements
- Phase Noise: -169 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Software Options Include: Pulsed Analysis, Spectrum Analysis
- Two Built-in Isolated DC Voltage Channels



**Rohde & Schwarz FSWP26** | Phase Noise Analyzer; 1 MHz to 26.5 GHz

- Full-featured Phase Noise Analyzer and Spectrum Analyzer
- Phase Noise: -166 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Low Phase Noise Internal LO, Needs No External Sources
- Cross-Correlation Measurements for 25 dB Improved Sensitivity



**Rohde & Schwarz FSWP50** | Phase Noise Analyzer; 1 MHz to 50 GHz

- Full-featured Phase Noise Analyzer and Spectrum Analyzer
- Phase Noise: -166 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Low Phase Noise Internal LO, Needs No External Sources
- Phase Noise @ 50 GHz: -138 dBc/Hz (10 kHz Offset)



**Rohde & Schwarz FSPN26** | Phase Noise Analyzer and VCO Tester; 1 MHz to 26.5 GHz

- Cross-Correlation and High-Speed for VCOs, OXCOs, DROs
- Phase Noise: -163 dBc/Hz @ 1 GHz Carrier (10 kHz Offset)
- Offset Frequency Range: 1 μHz to 1 GHz

**FEATURED**

**NI PXIe-5841** | Vector Signal Transceiver

- Frequency Ranges: 500 MHz, 6, 21 GHz
- Signal Analyzer and Vector Generator
- 1 GHz Bandwidth
- Test wireless standards: 5G NR, Wi-Fi





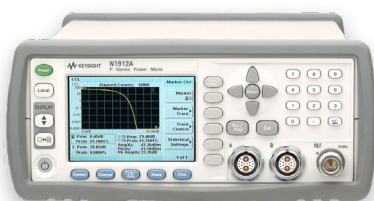
### Keysight N1914A | EPM Series Dual-Channel Power Meter

- Average Power Measurements
- Compatible with all N8480, 8480, U2000 Series and E-series Sensors (except the E9320 family)
- Configurations Available with Calibrator



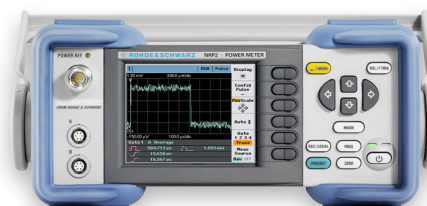
### Rohde & Schwarz NRX | RF Power Meter

- Presets for All Mobile Standards Including: 3GPP LTE, 3GPP WDCMA, WLAN, Bluetooth
- Automatic Statistics for CCDF, CDF, PDF
- Touch Interface with LAN, USB and Optional GPIB Interfaces



### Keysight N1912A | P-Series Single-Channel Power Meter

- 100 MS/s, 30 MHz Video Bandwidth
- Predefined Formats for Cellular, Wi-Fi
- Internal Zero and Calibration with DUT Connection
- Compatible with P-Series Sensors, E-Series Sensors, 8480 and N8480 Sensors



### Rohde & Schwarz NRP2 | RF Power Meter

- Supports Up to Four NRP-Zxx Power Sensors
- Automatic Statistics for CCDF, CDF, PDF
- LAN, USB, GPIB Interfaces Standard

## Power Sensors

Model	OEM	Description	Frequency Range	Power	Connector
N1921A	Keysight	P-Series Wideband Power Sensor	50 MHz to 18 GHz	-30 to +20 dBm	N-Type
U2001A	Keysight	USB Power Sensor	10 MHz to 6 GHz	-60 to +20 dBm	N-Type
U2002A	Keysight	USB Power Sensor	50 MHz to 24 GHz	-60 to +20 dBm	3.5 mm
NRP-Z81	Rohde & Schwarz	Wideband Power Sensor	50 MHz to 18 GHz	-60 to +20 dBm	N-Type
NRP-Z85	Rohde & Schwarz	Wideband Power Sensor	50 MHz to 40 GHz	-60 to +20 dBm	2.92 mm
NRP-Z27	Rohde & Schwarz	Power Sensor Module	DC to 18 GHz	-24 to +26 dBm	N-Type
NRP33S	Rohde & Schwarz	3-Path Diode Power Sensor	10 MHz to 33 GHz	-70 to +23 dBm	3.5 mm
NRP50S	Rohde & Schwarz	3-Path Diode Power Sensor	50 MHz to 50 GHz	-70 to +23 dBm	2.4 mm
U2022XA	Keysight	USB Peak and Average Power Sensor	50 MHz to 40 GHz	-30 to +20 dBm	2.4 mm
U2049XA	Keysight	LAN Peak and Average Power Sensor	10 MHz to 33 GHz	-70 to +20 dBm	3.5 mm
U2054XA	Keysight	USB Wide Dynamic Range Average Power Sensor	10 MHz to 40 GHz	-70 to +20 dBm	2.92 mm
U2043XA	Keysight	USB Wide Dynamic Range Sensor	10 MHz to 18 GHz	-70 to +26 dBm	N-Type
8481A	Keysight	Power Sensor	10 MHz to 18 GHz	-30 to +20 dBm	N-Type
8485D	Keysight	Diode Power Sensor	50 MHz to 26.5 GHz	-70 to +20 dBm	3.5 mm
8487A	Keysight	Power Sensor	50 MHz to 50 GHz	-30 to +20 dBm	2.4 mm



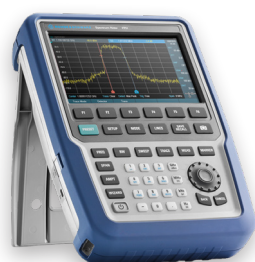
**Keysight N991xA/B** | FieldFox RF Combination Analyzer

- Several Models Covering: 30 kHz to 4, 6.5, 18, 26.5 GHz
- B Version: 120 MHz of Real-Time Bandwidth
- Performs Over-the-air Measurements of 5G NR and LTE
- Software Upgrades Available for 2-Port VNA Operation, Real-time Spectrum Analysis, Vector Voltmeter, Noise Figure and More
- Multiple Software Options Available for Rental



**Keysight N9952B** | FieldFox Microwave Combination Analyzer; 300 kHz to 50 GHz

- Cable and Antenna Analyzer, Network Analyzer and Spectrum Analyzer
- 120 MHz of Real-Time Bandwidth
- Performs Over-the-air Measurements of 5G NR and LTE in FR2 Bands
- Software Upgrades Available for 2-Port VNA Operation, Real-time Spectrum Analysis



**Rohde & Schwarz FPH** | Spectrum Rider Handheld Spectrum Analyzer

- Frequency Ranges: 5 kHz to 2, 4, 13, 26.5 GHz
- Low DANL: -163 dBm
- Software Applications Include: AM/FM Modulation Analysis, Signal Strength Mapping, Interference Analysis, Receiver Mode



**Rohde & Schwarz ZVH** | Handheld Cable and Antenna Analyzer

- Frequency Ranges: 100 kHz to 3.6, 8 GHz
- 2-Port Unit with Both One Port and Two Port Functions
- Measurements Include: DTF, Reflection/Transmission, 2-Port VNA, Spectrum and Spectrogram, Vector Voltmeter



**Anritsu MS2720T** | Spectrum Master Spectrum and Interference Analyzer

- Frequency Ranges: 9 kHz to 9, 20, 43 GHz
- Low DANL: -164 dBm
- Interference Analyzer: Spectrogram, Signal Strength, RSSI, Coverage Mapping
- PIM Analysis & Hunting



**Anritsu MS2090A** | Field Master Pro Handheld Spectrum Analyzer

- Frequency Ranges: 9 kHz to 9, 44 GHz
- Low DANL: -164 dBm
- 110 MHz Analysis Bandwidth with RTSA
- 5G NR, LTE FDD/TDD, RF and Modulation Quality Measurements

## A Full Range of Services from Electro Rent

We offer a comprehensive range of test equipment procurement and support services.

### **RENTAL AND LEASING**

*Fast, flexible, and affordable access to the latest equipment.*

- Options from one week rental to long-term leases of several years
- Flexibility to change, extend, or upgrade
- Full account support
- Calibration and maintenance included

### **BUY NEW**

*Purchase options when buying new is right for you.*

- Excellent choice and availability from our large inventory
- Fast delivery
- Independent advice and guidance
- Ongoing local support

### **CERTIFIED PRE-OWNED**

*High-quality equipment for much less than buying new.*

- A 23-step inspection so you can deploy immediately
- One-year warranty and 14-day return policy
- Excellent availability and fast delivery
- Calibrated and ready to use

### **ASSET OPTIMIZATION**

*Optimize your existing equipment with our services and know-how.*

- Asset tracking for field or lab
- Increase equipment sharing and utilization
- Better manage calibration and repair
- Better management for technology obsolescence and disposal

## AMERICAS

### Corporate Headquarters USA

8511 Fallbrook Ave,  
Suite 200, West Hills,  
CA 91304, USA  
+1 800 553 2255  
[sales@electrorent.com](mailto:sales@electrorent.com)

### Canada

210 Brunel Rd, Unit 1-2,  
Mississauga, ON L4W 4M2,  
Canada  
+1 800 553 2255  
[sales@electrorent.com](mailto:sales@electrorent.com)

### Latin America

8511 Fallbrook Ave,  
Suite 200, West Hills,  
CA 91304, USA  
+1 800 553 2255  
[sales@electrorent.com](mailto:sales@electrorent.com)

## ASIA

### Asia Pacific Headquarters & Malaysia

Plot 253, Jalan Kampung Jawa,  
Bayan Lepas FIZ Phase 3,  
11900 Bayan Lepas, Penang, Malaysia  
+604 614 6000  
[info.asia@electrorent.com](mailto:info.asia@electrorent.com)

### China

Block 4, Unit 301,  
Chao Lai Hi-Tech Industrial Park  
Building No.18,  
Laiguangying West Road,  
Chaoyang District,  
Beijing, 100102, China  
+86 400 819 2800  
[info.china@electrorent.com](mailto:info.china@electrorent.com)

### India

4051-53, Vipul Square, B Block,  
Sushant Lok Phase - I,  
Gurgaon 122002,  
Haryana, India  
+91 124 4831 400  
[info.india@electrorent.com](mailto:info.india@electrorent.com)

### Singapore

38 Beach Road, #30-19  
South Beach Tower,  
189767 Singapore  
+65 6773 9136  
[info.asia@electrorent.com](mailto:info.asia@electrorent.com)

### Taiwan

12 F., No. 508, Sec. 5,  
Zhongxiao E. Rd.,  
Xinyi Dist., Taipei City 11083,  
Taiwan (R.O.C.)  
+886-701 0152 200  
[info.china@electrorent.com](mailto:info.china@electrorent.com)

## EUROPE

### Belgium

Intercity Business Park,  
Generaal de Wittelaan 9/18,  
B-2800 Mechelen, Belgium  
+32 (0) 15 740 800  
[belgium@electrorent.com](mailto:belgium@electrorent.com)

### France

Parc Tertiaire Icade,  
43 Avenue Robert Schuman,  
94150 Rungis, France  
+33 (0) 1 45 12 65 65  
[france@electrorent.com](mailto:france@electrorent.com)

### Germany

Borsigstrasse 11,  
64291 Darmstadt,  
Deutschland  
+49 6151 360 41-0  
[germany@electrorent.com](mailto:germany@electrorent.com)

### Italy

Via Melchiorre Gioia 8,  
20124 Milano, Italia  
+39 02 9239 2801  
[infoitaly@electrorent.com](mailto:infoitaly@electrorent.com)

### Nordics

Intercity Business Park,  
Generaal de Wittelaan 9/18,  
B-2800 Mechelen, Belgium  
+32 (0) 15 740 800  
[belgium@electrorent.com](mailto:belgium@electrorent.com)

### Poland

ul. Długa 44/50,  
00-24 Warszawa,  
Polska  
+48 22 331 66 66  
[poland@electrorent.com](mailto:poland@electrorent.com)

### Spain

Calle Gabriel Garcia Márquez nº 4,  
1ª Planta, Las Rozas de Madrid,  
Madrid, 28232  
+34 91 076 21 90  
[spain@electrorent.com](mailto:spain@electrorent.com)

### The Netherlands

Fokkerstraat 29,  
3905 KV Veenendaal,  
Nederland  
+31 (0) 318 588 688  
[netherlands@electrorent.com](mailto:netherlands@electrorent.com)

### UK & Ireland

Unit 1, Waverley Industrial Park,  
Hailsham Drive, Harrow,  
HA1 4TR, UK  
+44 (0) 20 84 200 200  
[info.eu@electrorent.com](mailto:info.eu@electrorent.com)

## MIDDLE EAST & AFRICA

Unit 1, Waverley Industrial Park,  
Hailsham Drive, Harrow,  
HA1 4TR, UK  
+44 (0) 20 84 200 200  
[info.eu@electrorent.com](mailto:info.eu@electrorent.com)

