

RF Test Equipment Catalog

A Better Way to Procure
Your Equipment





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Keep Projects Moving Forward

RF Test & Measurement – Built on Decades of Experience

For 60+ years, Electro Rent has been providing RF test equipment to companies across industries, supporting customers as they design and test products for aerospace & defense, satellite communications, semiconductors, automotive, wireless communications, and more.

Your Premier Test Equipment Partner

Electro Rent has a team of experts in RF test equipment and applications. We know what it takes to deliver the right configurations on time, from world-leading test and measurement manufacturers.

Through our global fleet of more than \$1 billion in electronic test equipment from more than 200 manufacturers, our solutions help companies meet testing demands while improving operational efficiency.

Experience Our Extensive Inventory

Browse this catalog for our most popular RF test equipment. If you can't find what you're looking for, give us a call. We have thousands of additional models in stock, with new models being added regularly.

Global Resources for Mission-Critical Projects

Supported by our global inventory centers, we help businesses worldwide with local expertise, responsive support, and strategically located logistics hubs.

Our flexible test equipment solutions are designed to integrate seamlessly into your existing operations. We work with you to reduce the overall cost of testing by improving productivity and reducing equipment management overhead.



\$1B+
inventory



95,000+
instruments



200+
manufacturers



7,000+
models available



60+
years of industry experience



20
worldwide locations

Test Equipment Rental Solutions

Built for flexibility, our rental solutions give you fast, cost-effective access to the test equipment you need. With a broad global inventory and ongoing investment in new technologies, you can scale capacity, access current equipment, and respond to changing project requirements without the commitment of ownership.

-  **FULL FLEXIBILITY**
Upgrade, extend, or end your rental as needed
-  **LOCAL PRESENCE**
Local logistics hubs, sales and support offices
-  **EXTENSIVE INVENTORY**
Thousands of instruments in stock
-  **FAST DELIVERY**
Delivery often within 24-48 hours
-  **EXPERT SUPPORT**
Guidance from our team of specialists, supported by our OEM partners
-  **NO OWNERSHIP COSTS**
Avoid maintenance and calibration costs
-  **PAY FOR USE, NOT FOR LIFE**
Rent from as little as one week, with low-cost, long-term plans available
-  **THE LATEST TECHNOLOGY**
Our updated inventory helps you access the latest equipment

Access equipment from leading manufacturers including:



COMING
SOON



Keysight SA6320A & SA6210A

XA6-class and XA5-class Signal Analyzers; 2 Hz to 67 GHz

- Pro series and Expert series
- Analysis bandwidth of 8 GHz (select models)
- Two RF input ports (select models)
- Automated measurement apps available for various industry standards

We have thousands more instruments in our comprehensive equipment inventory.

Scan QR Code to view our full selection.



Keysight N9042B, N9041B, N9040B

XA7-class UXA Signal Analyzer; 2 Hz to 110 GHz

- Flagship series
- Analysis bandwidth up to 4 GHz (select models); up to 11 GHz externally (select models)
- Dual RF inputs: 2.4 mm to 50 GHz and 1.0 mm to 110 GHz (select models)
- Automated measurement apps available for various industry standards



Rohde & Schwarz FSW

Signal Analyzer; 2 to 85 GHz

- Flagship series
- Analysis bandwidth up to 8.4 GHz
- Automated measurement apps available for various industry standards



Keysight N9032B, N9030B

XA5-class PXA Signal Analyzer; 2 Hz to 55 GHz

- Expert series
- Analysis bandwidth up to 2 GHz (select models)
- Automated measurement apps available for various industry standards



Keysight N9021B, N9020B

XA3-class MXA Signal Analyzer; 10 Hz to 50 GHz

- Essential series
- Analysis bandwidth up to 510 MHz (select models)
- Automated measurement apps available for various industry standards



Rohde & Schwarz FSVA3000 & FSV3000 Series

Signal Analyzer; 2 Hz to 54 GHz

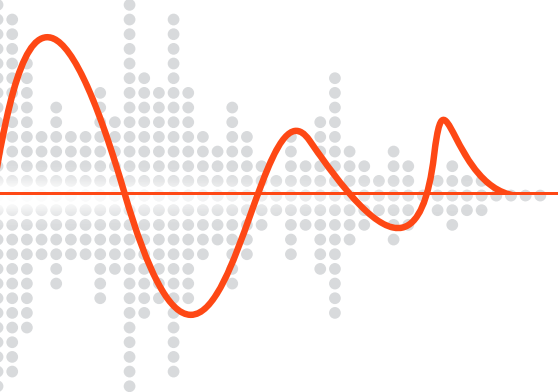
- Mid-range series
- Analysis bandwidth up to 1 GHz (select models)
- Automated measurement apps available for various industry standards



Keysight N9010B & N9000B

XA1-class EXA & CXA Signal Analyzer; 10 Hz to 44 GHz

- Essential/entry-level series
- Analysis bandwidth of 40 MHz (select models)
- Tracking generator available (select models)
- Automated measurement apps available for various industry standards



- Keysight PNA-X (N5249B/N5241B/N5242B/N5244B/N5245B/N5247B)**
- XN7-class PNA-X Microwave Network Analyzer; 900 Hz/10 MHz to 67 GHz*
- Flagship series
 - 2-port and 4-port versions with configurable test sets
 - Internal combiner and mechanical switches available
 - Low-noise receiver available with vector correction
 - Compatible ECal kits available
 - Automated measurement apps available for various test modes



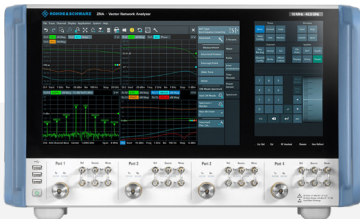
- Keysight E5081A & E5080B**
- XN5-class ENA-X and ENA Series Network Analyzers; 9 kHz/100 kHz to 53 GHz*
- Expert series
 - 2-port and 4-port versions with configurable test sets (select models)
 - Low-noise receiver for two ports (select models)
 - Compatible ECal kits available
 - Automated measurement apps available for various test modes



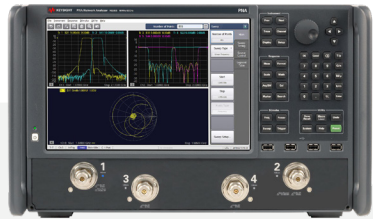
- Keysight USB Streamline VNA (P50xxB / P93xxB Series)**
- XN4-class P50xxB and P93xxB Series Network Analyzer; 100 kHz to 53 GHz*
- Compact form factor
 - 2-port, 4-port, and 6-port versions
 - Compatible ECal kits available
 - Automated measurement apps available for various test modes



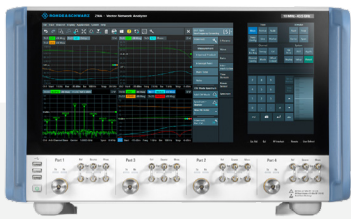
- Keysight E5061B**
- XN3-class ENA Series Network Analyzer / Impedance Analyzer; 100 kHz to 3 GHz*
- Essential series
 - 3 GHz network analyzer and impedance analyzer in one unit
 - Gain-phase test port, 5 Hz to 30 MHz, for impedance measurements
 - Compatible with Keysight component measurement fixtures



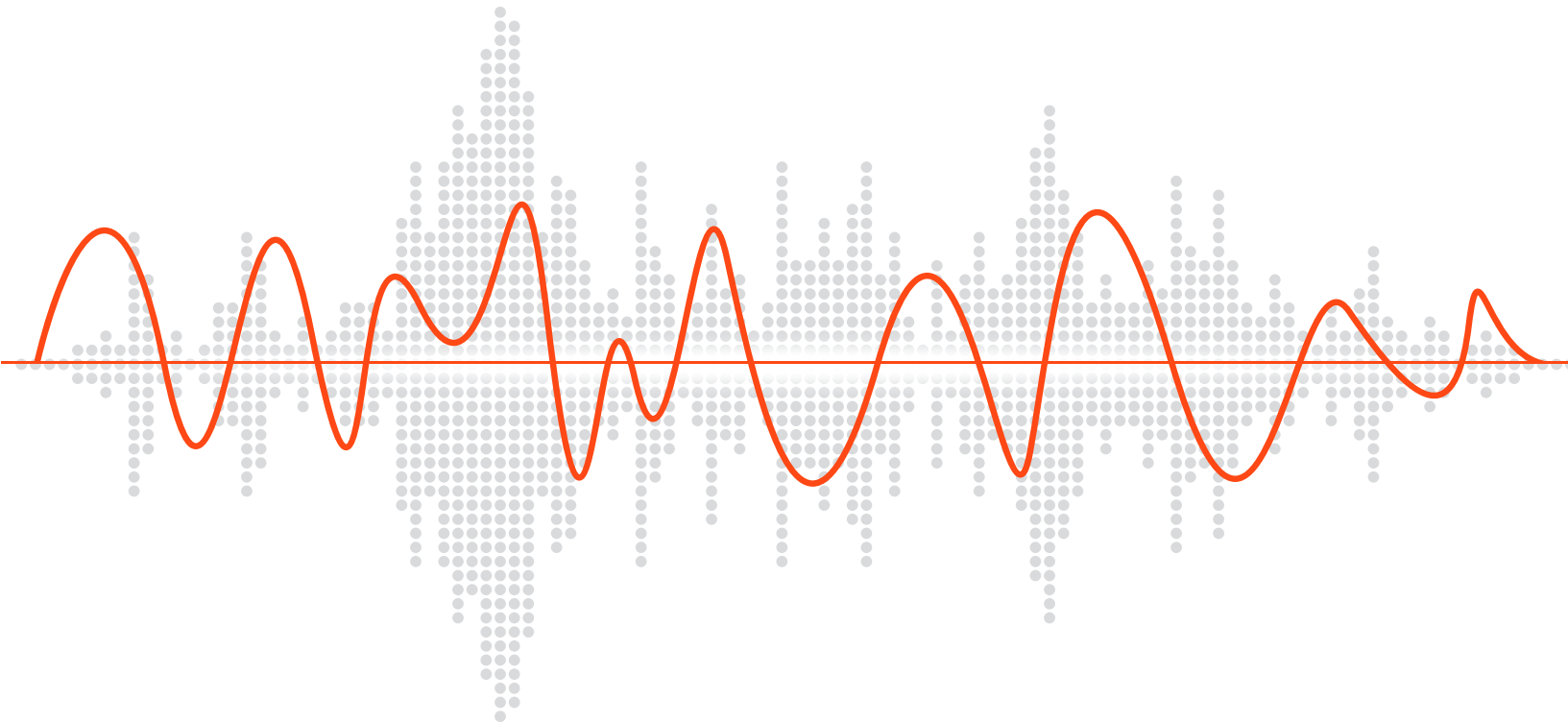
- Rohde & Schwarz ZNA Series**
- Vector Network Analyzer; 10 MHz to 67 GHz*
- Flagship series
 - 2-port and 4-port versions with configurable test sets
 - Up to 4 sources available
 - Compatible automatic calibration kits available
 - Automated measurement apps available for various test modes



- Keysight N5221B, N5222B, N5224B, N5225B, N5227B**
- XN7-class PNA Microwave Network Analyzer; 900 Hz/ 10 MHz to 67 GHz*
- Expert series
 - 2-port and 4-port versions with configurable test sets
 - Compatible ECal kits available
 - Automated measurement apps available for various test modes



- Rohde & Schwarz ZNA3000 Series**
- Vector Network Analyzer; 9 kHz to 54 GHz*
- Mid-range series
 - 2-port and 4-port versions
 - Compatible automatic calibration kits available
 - Automated measurement apps available for various test modes





Keysight N4694D

Electronic Calibration Module (ECal); 1.85 mm, 2-port, DC/10 MHz to 67 GHz

- Available in male/male (Option MOM), female/female (Option FOF), and male/female (Option MOF) connector configurations
- 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

CALIBRATION KITS

Model	OEM	Description	Connector	Frequency	Rental Torque Wrenches
85032F	Keysight	Standard Mechanical Calibration Kit	N-Type	9 GHz	No
85052D	Keysight	Economy Mechanical Calibration Kit	3.5 mm	26.5 GHz	Yes
ZN-Z224	Rohde & Schwarz	Calibration Kit; DC to 50 GHz	2.4 mm	DC to 50 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



Rohde & Schwarz SMA100B

Analog Signal Generator; 8 kHz to 67 GHz

- Exceptionally low harmonics
- Available in 2U and 3U heights
- Maximum output power exceeds +30 dBm across a wide frequency range



Keysight AP5032A

XG6-class Analog Signal Generator; 9 kHz to 51 GHz

- Expert series
- Choose from 1, 2, 3, or 4 independently controllable, phase-coherent channels
- Low-profile 2U rack-height chassis



Keysight N5183B

XG5-class Analog Signal Generator; 9 kHz to 40 GHz

- Expert series
- Settable range: +3 to -135 dBm (with Options 1E1 and 1EA)



Rohde & Schwarz SMB100B

Analog Signal Generator; 8 kHz to 40 GHz

- Mid-range series
- Ultra-high output power of +34 dBm at 1 GHz



Keysight AP5021A G3

XG5-class Analog Signal Generator; 9 kHz to 54 GHz

- Expert series
- Frequency switching speed: 15 µs



Keysight M9484C VXG

XXG7-class Pro Vector Signal Generator; 9 kHz to 54 GHz

- Flagship series
- Up to 4 channels available
- 2.5 GHz modulation bandwidth (select models)
- PathWave Signal Generation available for various modulation scenarios



Keysight E8267D

XXG5-class PSG Vector Signal Generator; 100 kHz to 44 GHz

- Expert series
- Extendable to 500 GHz
- PathWave Signal Generation available for various modulation scenarios



Rohde & Schwarz SMW200A

Vector Signal Generator; 100 kHz to 44 GHz

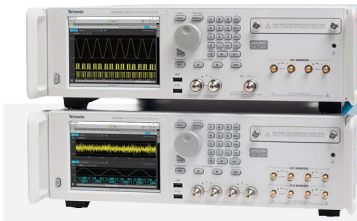
- Flagship series
- Up to 2 channels available
- 2 GHz modulation bandwidth (select models)
- Signal generation options for various modulation scenarios



Rohde & Schwarz SMCV100B

Vector Signal Generator; 8 kHz to 7.125 GHz

- Mid-range series
- Compact form factor
- 240 MHz modulation bandwidth (select models)
- Signal generation options for various modulation scenarios



Tektronix AWG70002B

Arbitrary Waveform Generator; 2 channels at 25 GS/s

- Sample rate up to 50 GS/s for single-channel instruments and up to 25 GS/s for two-channel instruments
- 10-bit vertical resolution and 16 GS waveform memory per channel
- -80 dBc spurious-free dynamic range
- Generate wideband RF signals up to 20 GHz
- 1.49 kS/s to 16 GS/s sample-clock generator
- Suitable for generating arbitrary patterns, radar pulses, and clock sources



Keysight N5186A

XXG5-class MXG Vector Signal Generator; 9 kHz to 8.5 GHz

- Expert series
- Compact form factor
- Up to 4 channels available
- 1 GHz modulation bandwidth (select models)
- PathWave Signal Generation available for various modulation scenarios



Keysight N5182B & N5172B

XXG2-class MXG & EXG Vector Signal Generator; 9 kHz to 6 GHz

- Essential series
- Real-time signal simulation options
- 160 MHz modulation bandwidth (select models)
- PathWave Signal Generation available for various modulation scenarios



Rohde & Schwarz SMBV100B

Vector Signal Generator; 8 kHz to 6 GHz

- Mid-range series
- High-power option up to +33 dBm
- 1 GHz modulation bandwidth (select models)
- Signal generation options for various modulation scenarios



NI PXIe-5842

VST3 Series; 30 MHz to 26.5 GHz

- Up to 4 GHz modulation bandwidth
- Supports various modulation generation and measurement scenarios

Vector Signal Transceivers



Keysight UXR-Series

Infiniium UXR Real-Time Oscilloscope; up to 4 channels, 5 to 110 GHz

- 128 GS/s from 10 GHz to 33 GHz; 256 GS/s from 25 GHz to 110 GHz
- 10-bit resolution; at least 14-bit resolution with averaging
- 1 mV/div to 500 mV/div vertical resolution
- Applications: USB4 v2, PCIe Gen 5/6, DDR4/5, and phase-noise testing



Tektronix MSO68B

Mixed Signal Oscilloscope; 8 channels, up to 10 GHz

- Frequency range: 1, 4, 6, 8, and 10 GHz models
- Low-noise inputs: <1.25 mV of noise at 50 mV/div at 10 GHz
- 4 to 8 analog channels and up to 64 digital channels with the TLP058 probe
- 50 GS/s on 2 channels; 25 GS/s on 4 channels



Rohde & Schwarz RTP164

High-Performance Digital Oscilloscope; 4 channels, 16 GHz

- 4, 6, 8, 13, and 16 GHz models
- 40 GS/s with 2 channels interleaved; 20 GS/s on each channel
- Up to 3 Gpts per channel
- Software options for USB 3.2, 10G Ethernet, MIPI D-PHY, DDR3/4, and Automotive Ethernet

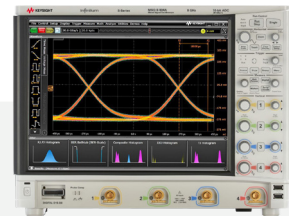


Tektronix MSO58B

Mixed Signal Oscilloscope; 8 channels

- 350 MHz to 2 GHz, 8 analog channels, and up to 64 optional digital channels
- Record length: 62.5 to 500 Mpts
- Built-in FFT signal analysis on all channels
- Serial-decode trigger support for I2C, SPI, USB 2.0, Ethernet, CAN, and LIN

- 12-bit ADC; up to 16-bit resolution in high-resolution mode
- Performs RF measurements including channel power, ACPR, and OBW



Keysight MSOS804A

Infiniium S-Series Digital Oscilloscope; 4 channels, 8 GHz

- 8 GHz, 4 analog channels, and 16 digital channels
- Sample rate: 20 GS/s with 100 Mpts/channel, upgradeable to 400 Mpts/channel
- 10-bit ADC with 16-bit resolution in high-resolution mode
- 260 μ V full-bandwidth noise floor

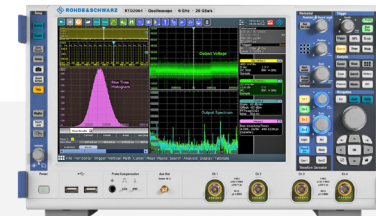


Keysight MXR608A

Infiniium MXR-Series Real-Time Oscilloscope; 8 channels, up to 6 GHz

- Accurate measurements with ENOB up to 9.0 and noise as low as 43 μ V
- Sample rate: 16 GS/s on 8 channels
- 10-bit ADC with 16-bit resolution in high-resolution mode

- 200 Mpts, upgradeable to 400 Mpts or 1.6 Gpts of flexible memory
- Protocol decoding for MIPI M-PHY, C-PHY, D-PHY, USB 2.0, high-speed automotive, and low-speed serial protocols
- Real-time spectrum analysis and waveform generation



Rohde & Schwarz RTO2064

Digital Oscilloscope; 4 channels, 6 GHz

- Powerful multichannel spectrum analysis for up to four signals in parallel
- Record length: 2 Gsamples at 20 GS/s
- Power measurements and analysis
- Digital triggering on high-definition signals with up to 16-bit vertical resolution

- Triggering and decoding of serial protocols such as I2C, SPI, and CAN
- Automatic compliance tests on fast interfaces, including USB and Ethernet
- Detailed options for jitter analysis and power analysis
- Spectrum and signal analysis
- Real-time de-embedding with S-parameters in hardware



Rohde & Schwarz RT064

Digital Oscilloscope; 4 channels

- Frequency range: 4 and 6 GHz
- Sample rate: 20 GS/s; 1 million waveforms per second
- Digital triggering on 16-bit high-definition signals
- Emulation of channel loss and TX/RX equalization
- Maximum memory: 2 Gpts
- Software options include power analysis, jitter analysis, de-embedding, and TDR



Tektronix DPS75004SX

ATi Performance Oscilloscope System; 33/50 GHz

- 2 channels at 50 GHz and 200 GS/s, or 4 channels at 33 GHz and 100 GS/s
- Up to 1 Gpts
- Coherent optical modulation analysis
- Research and defense data acquisition and analysis
- 100G/400G data communications

system debugging

- PCIe debugging and compliance testing
- High-speed serial communications debugging and compliance testing
- Supports PCIe, USB, Thunderbolt, HDMI, DisplayPort, and more



Keysight E5058A, E5056A, E5057A, E5055A

PN7-class SSA-X Signal Source Analyzer; 1 MHz to 54 GHz

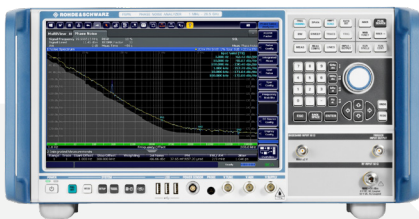
- Flagship series
- Phase noise: -169 dBc/Hz at a 1 GHz carrier (10 kHz offset)
- Software options include pulsed analysis and signal analysis
- Residual phase-noise capability (select models)



Rohde & Schwarz FSWP

Phase Noise Analyzer; 1 MHz to 56 GHz

- Flagship series
- Phase noise: -166 dBc/Hz at a 1 GHz carrier (10 kHz offset)
- Software options include pulsed analysis and signal analysis
- Residual phase-noise capability (select models)



Rohde & Schwarz FSPN

Phase Noise Analyzer; 1 MHz to 50 GHz

- Mid-range series
- Phase noise: -163 dBc/Hz at a 1 GHz carrier (10 kHz offset)

Scopes as RF Test Equipment?

- Use Keysight VSA software or Tektronix SignalVu software
- Gain greater insight with high-resolution, FFT-based spectrum, time-domain, and modulation-domain analysis
- Analyze and troubleshoot signals in cellular, wireless connectivity, aerospace, defense, satellite communications, and general-purpose applications
- Customize measurement displays to show multiple views of a signal at once
- If you don't see what you need, give us a call.





Keysight N1914A

EPM Series Dual-Channel Power Meter

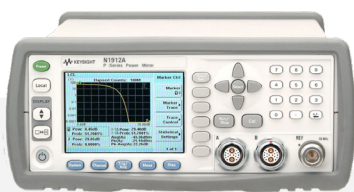
- Average-power measurements
- Compatible with all N8480, 8480, U2000 Series, and E-Series sensors (except the E9320 family)
- Configurations available with a calibrator



Rohde & Schwarz NRX

RF Power Meter

- Presets for all mobile standards, including 3GPP LTE, 3GPP WCDMA, WLAN, and Bluetooth
- Automatic statistics for CCDF, CDF, and PDF
- Touch interface with LAN, USB, and optional GPIB interfaces



Keysight N1912A

P-Series Single-Channel Power Meter

- 100 MS/s and 30 MHz video bandwidth
- Predefined formats for cellular and Wi-Fi
- Internal zeroing and calibration with the DUT connected
- Compatible with P-Series, E-Series, 8480, and N8480 sensors



Keysight N991xB/C

FieldFox RF Combination Analyzer; 30 kHz to 26.5 GHz

- 120 MHz of real-time bandwidth (select models)
- Performs over-the-air measurements for 5G NR, mapping, and interference analysis
- Various measurement apps available via keycode



Keysight N995xB/C

FieldFox Microwave Combination Analyzer; 300 kHz to 54 GHz

- 120 MHz of real-time bandwidth (select models)
- Performs over-the-air measurements for 5G NR, mapping, and interference analysis
- Various measurement apps available via keycode



Rohde & Schwarz FPH

Signal Rider Handheld Signal Analyzer; 5 kHz to 44 GHz

- Performs over-the-air measurements, mapping, and interference analysis
- Various measurement apps available via keycode

POWER SENSORS

OEM	Model	Description	Frequency Range	Power	Connector
Keysight	N1921A	P-Series Wideband Power Sensor	50 MHz to 18 GHz	−30 to +20 dBm	N-Type
Keysight	U2064XA	USB Wide-Dynamic-Range Peak and Average Power Sensor	10 MHz to 40 GHz	−70 to +20 dBm	2.92 mm
Keysight	U2002A	USB Power Sensor	50 MHz to 24 GHz	−60 to +20 dBm	3.5 mm
Rohde & Schwarz	NRP-Z81	Wideband Power Sensor	50 MHz to 18 GHz	−60 to +20 dBm	N-Type
Rohde & Schwarz	NRP-Z85	Wideband Power Sensor	50 MHz to 40 GHz	−60 to +20 dBm	2.92 mm
Rohde & Schwarz	NRP-Z27	Power Sensor Module	DC to 18 GHz	−24 to +26 dBm	N-Type
Rohde & Schwarz	NRP33S	3-Path Diode Power Sensor	10 MHz to 33 GHz	−70 to +23 dBm	3.5 mm
Rohde & Schwarz	NRP50S	3-Path Diode Power Sensor	50 MHz to 50 GHz	−70 to +23 dBm	2.4 mm
Keysight	U2049XA	LAN Peak and Average Power Sensor	10 MHz to 33 GHz	−70 to +20 dBm	3.5 mm



Anritsu MS2090A

Field Master Pro Handheld Signal Analyzer; 9 kHz to 44 GHz

- 110 MHz analysis bandwidth with RTSA
- 5G NR, RF, and modulation-quality measurements

Full Range of Services

01 | Rental and Leasing

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

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

03 | Certified Pre-Owned

High-quality equipment for much less than the cost of buying new.

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

02 | 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

04 | 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 manage technology obsolescence and disposal

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RENT | BUY | OPTIMIZE