

Call toll free 6AM–6PM (PST) 888-665-2765

RF CABLE & ANTENNA ANALYZER

GSA Agilent  
N9912A

10%  
OFF

The FieldFox RF Analyzer is the world’s most integrated handheld instrument for wireless network installation and maintenance. It combines cable/ antenna analysis, spectrum analysis, power meter measurements and vector network analysis into one rugged, compact, lightweight and weather-resistant package.

Cable and Antenna Analyzer

- Frequency range: 2 MHz to 4 GHz and optional 6 GHz
- Directivity: > 42 dB
- Measurement speed: 1.5 ms / per point

Network Analyzer

- 2 MHz to 4 GHz and optional 6 GHz
- S11 magnitude and phase, S21 magnitude

Spectrum Analyzer

- Frequency range: 100 kHz to 4 GHz and optional 6 GHz
- DANL (displayed average noise level): -148 dBm / Phase noise: -88 dBc at 10 kHz
- TOI (third order inter-modulation distortion): +18 dBm
- Sweep speed:  
1 second / full span (6 GHz)

Power Meter

- 9 kHz to 24 GHz U2000 Series  
USB power sensor dependent

Vector Voltmeter

- large vector voltmeter display
- easily match two or more device’s electrical length
- ensures signals that travel on different devices have the same delay

Standard accessories include:

AC/DC adapter, battery, soft carrying case, user manual and FieldFox Data Link software.



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GSA

FREE  
7-DAY  
TRIAL

Model	Description	MSRP	GSA Price
N9912A	FieldFox RF analyzer 4 GHz Cable and Antenna Analyzer	\$7,599.00	\$6,770.71
Option	Description	MSRP	GSA Price
N9912A-106	6 GHz Cable & Antenna Analyzer	\$1,002.00	\$892.78
N9912A-110	Transmission Measurement	\$1,360.00	\$1,211.76
N9912A-111	QuickCal	\$951.00	\$847.34
N9912A-230	4 GHz Spectrum Analyzer	\$3,699.00	\$3,295.81
N9912A-231	6 GHz Spectrum Analyzer	\$6,700.00	\$5,969.70
N9912A-235	Preamplifier for Spectrum Analysis Capability	\$750.00	\$668.25
N9912A-302	External USB Power Sensor Support	\$499.00	\$444.61
N9912A-303	Network Analysis Capability	\$499.00	\$444.61
N9912A-308	Vector Voltmeter	\$1547.00	\$1378.38

Federal contractors and government agencies are eligible for savings.



WIRELESS/RADIO/SATELLITE

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## SIGNAL ANALYZER

### GSA Agilent EXA N9010A Series

**SAVE  
\$3,452**

The Agilent EXA is the industry's fastest economy-class signal analyzer. Its speed and accuracy, coupled with its unprecedented performance and application coverage, provides development and manufacturing engineers with the capabilities to cost-effectively troubleshoot new designs, increase manufacturing throughput, or analyze complex and time-varying signals.

Seamlessly integrate a broad range of standards-based measurements with Agilent's industry leading 89600 vector signal analysis (VSA) software—all in a single instrument. In addition to the use of an open Windows® XP Professional operating system, the EXA provides an advanced signal analysis user interface. All measurement features and functions are intuitively grouped and accessible from the front panel or via a USB keyboard and mouse.



Model	Frequency Range	Includes	MSRP	GSA Price
N9010A-503	9 kHz–3.6 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$17,322.00	<b>\$15,433.90</b>
N9010A-507	9 kHz–7.0 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$26,033.00	<b>\$23,195.40</b>
N9010A-513	9 kHz–13.6 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$31,673.00	<b>\$28,220.64</b>
N9010A-526	9 kHz–26.5 GHz	Comes Standard w/ 10 MHz Analysis Bandwidth	\$34,740.00	<b>\$30,953.34</b>

## HANDHELD SPECTRUM ANALYZER

### GSA Agilent N9340B

**SAVE  
\$927**

The N9340B handheld RF spectrum analyzer provides powerful features for field applications, superior performance to build the confidence in field test, and exceptional usability to enhance field productivity. 100 kHz to 3 GHz frequency range, 10 ms non-zero span sweep time, 30 Hz to 1 MHz RBW in 1-3-10 sequence, -144 dBm displayed average noise level (DANL) with pre-amplifier, +10 dBm third order intercept (TOI), 6.5" TFT color LCD for indoor and outdoor use, 4-hour battery, remote control via SCPI on USB and LAN port.



Model	Description	MSRP	GSA Price
N9340B	100 kHz–3 GHz Frequency Range Handheld Spectrum Analyzer	\$8,508.00	<b>\$7,580.63</b>
N9340B-PA3	Add 3 GHz Pre-amplifier	\$681.00	<b>\$606.77</b>
N9340B-TG3	Add 3 GHz Tracking Generator	\$2,252.00	<b>\$2,006.53</b>
N9340B-AMA	AM/FM Modulation Analysis	\$617.00	<b>\$549.75</b>
N9340B-DMA	ASK/FSK Modulation Analysis	\$617.00	<b>\$549.75</b>

GSA contract products, (GS24F0066M, GS35F0311R). Small business credit applies. Free shipping FOB U.S. destinations.



NAVICPMart contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

## HIGH PERFORMANCE SPECTRUM ANALYZER

**GSA** Agilent  
PSA Series

**SAVE  
\$10,240**

High-performance spectrum analysis up to 50 GHz and beyond with powerful one-button measurements, a versatile feature set, and a leading-edge combination of flexibility, speed, accuracy, and dynamic range. From millimeter wave and phase noise measurements to spur searches and modulation analysis, the PSA Series offers unique and comprehensive high-performance solutions to R&D and manufacturing engineers in cellular and emerging wireless communications, aerospace, and defense. Use with Agilent 89601A Vector Signal Analysis software for powerful flexible signal and modulation analysis for communications and RADAR.



Model	Frequency Range	MSRP	GSA Price
E4440A	10 MHz–26.5 GHz	\$64,257.00	<b>\$57,252.98</b>
E4443A	10 MHz–6.7 GHz	\$55,174.00	<b>\$49,160.03</b>
E4445A	10 MHz–13.2 GHz	\$60,103.00	<b>\$53,551.77</b>
E4448A	3 Hz–50 GHz	\$93,953.00	<b>\$83,712.12</b>

## MID RANGE PORTABLE SPECTRUM ANALYZER

**GSA** Agilent  
ESA Series

**SAVE  
\$4,891**

For general spectrum analysis of RF or microwave signals. Includes advanced set of firmware features and functions in an upgradeable platform. Optional measurement features available such as noise figure and phase noise. Select from the ESA's optional built-in demodulation analysis applications or use with the Agilent 89601A VSA software for full featured vector signal analysis. Robust chassis allows for reliable field or bench-top use. Measure up to 325 GHz using external mixers.



Model	Description	MSRP	GSA Price
E4403B	9 kHz–3.0 GHz	\$13,291.00	<b>\$11,842.28</b>
E4404B	9 kHz–6.7 GHz	\$23,012.00	<b>\$20,503.69</b>
E4405B	9 kHz–13.2 GHz	\$28,104.00	<b>\$25,040.66</b>
E4407B	9 kHz–26.5 GHz	\$34,109.00	<b>\$30,391.12</b>
E4407S-E57	40 GHz	\$44,878.00	<b>\$39,986.30</b>

## COMPACT PORTABLE SPECTRUM ANALYZER

**GSA** Agilent  
CSA Series

**SAVE  
\$1,424**

Outstanding distortion performance, substantial noise performance, and standard 10 Hz resolution bandwidth. The instrument also offers overall amplitude accuracy of  $\pm 0.5$  dB (95%). With its small size, rugged package and battery operation, Agilent CSA is ideal for installation and field maintenance applications. Now you get all of this capability and more, with the optional Stimulus Response Measurement Suite that adds software and built-in signal source and bridge for fast, accurate, easy to use cable match and distance to fault testing.



Model	Frequency Range	MSRP	GSA Price
N1996A-503	100 kHz–3 GHz	\$9,546.00	<b>\$8,505.49</b>
N1996A-506	100 kHz–6 GHz	\$13,068.00	<b>\$11,643.59</b>

## RF POWER METER

**GSA** Agilent  
EPM Series E4418B, E4419B

**SAVE  
\$684**

Low cost, high-performance, programmable RF power meters capable of measuring from -70dBm to +44dBm at frequencies from 9 kHz to 110 GHz. Utilize the 8480 and E series power sensors.

**TWO SIMULTANEOUS  
POWER READINGS ON ONE DISPLAY!\***



Model	Description	MSRP	GSA Price
E4418B	Single Channel	\$3,663.00	<b>\$3,263.73</b>
E4419B*	Dual Channel	\$6,277.00	<b>\$5,592.80</b>



See more products at [www.gsamart.com](http://www.gsamart.com)

## MICROWAVE ANALOG SIGNAL GENERATOR

**GSA** Agilent  
MXG Series**SAVE  
\$3,492**

N5183A MXG microwave analog signal generators deliver the performance needed for broadband component manufacturing up to 40 GHz. This instrument provides  $\leq 900 \mu\text{s}$  frequency switching to improve test times, with a small 2RU size. Excellent power and level accuracy make the MXG microwave a reliable stimulus for driving high power devices. Can be configured to meet your test needs today, from LO substitution and CW interferer to analog modulation for device characterization, and is easily upgraded to meet your needs in the future.



Model	Frequency Range	MSRP	GSA Price
N5181A-501	250 kHz–1 GHz	\$6,635.00	<b>\$5,911.79</b>
N5182A-503	250 kHz–3 GHz	\$17,431.00	<b>\$15,531.02</b>
N5183A-520	100 kHz–20 GHz	\$19,225.00	<b>\$17,129.48</b>
N5183A-532	100 kHz–31.8 GHz	\$27,770.00	<b>\$24,743.07</b>
N5183A-540	100 kHz–40 GHz	\$32,042.00	<b>\$28,549.42</b>

## 40 GHz PEAK/PULSE POWER METER

**GSA** Agilent  
P-Series**SAVE  
\$1,149**

Wide bandwidth plus fast, accurate and repeatable power measurements makes the P-Series power meters and power sensors ideal for radar, pulsed component and satellite communications testing. Measurement capability includes: peak, average, peak-to-average ratio, rise time, fall time, pulse width, time to positive occurrence and time to negative occurrence; time-gated and free-run measurements. The 30 MHz bandwidth, combined with 100 MS continuous sampling allow the P-Series to specify a 13ns rise/fall time and measure down to 50 ns pulse widths. The P-Series is supplied as standard with GPIB, LAN and USB.



Model	Description	MSRP	GSA Price
N1911A	1 Channel Power Meter	\$7,501.00	<b>\$6,683.40</b>
N1912A	2 Channel Power Meter	\$10,547.00	<b>\$9,397.37</b>
N1921A	50 MHz–18 GHz Sensor	\$3,782.00	<b>\$3,369.76</b>
N1922A	50 MHz–40 GHz Sensor	\$4,425.00	<b>\$3,942.67</b>

**GSA** GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

## USB POWER SENSOR

**GSA** Agilent  
U2000 Series**SAVE  
\$518**

The U2000 Series USB power sensors provide plug-and-play connectivity by eliminating the need for a separate power meter. Dynamic wide-range power sensors can be used with a PC or any Agilent USB-based instrument. With internal zeroing there is no need to disconnect the sensor or power off the device-under-test (DUT).



Model	Frequency Range	Connector	MSRP	GSA Price
U2000A	10 MHz–18 GHz	Type-N (m)	\$3,396.00	<b>\$3,025.84</b>
U2001A	10 MHz–6.0 GHz	3.5 mm (m)	\$2,603.00	<b>\$2,319.27</b>
U2002A	50 MHz–24 GHz	Type-N (m)	\$4,188.00	<b>\$3,731.51</b>
U2004A	9 kHz–6.0 GHz	Type-N (m)	\$2,943.00	<b>\$2,622.21</b>
U2000B	10MHz–18GHz	Type N	\$4,754.00	<b>\$4,235.81</b>
U2000H	10MHz–18GHz	Type N	\$3,848.00	<b>\$3,428.57</b>
U2001B	10MHz–6GHz	3.5mm	\$3,962.00	<b>\$3,530.14</b>
U2001H	10MHz–6GHz	3.5mm	\$3,056.00	<b>\$2,722.90</b>

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## VECTOR NETWORK ANALYZER



**Agilent**  
E5061A-502

**SAVE**  
**\$8,728**

With its 115 dB dynamic range and 0.005 dB rms trace noise, provides the accuracy and speed required for many network measurement applications. The wide 30 kHz IF bandwidth (IFBW) and powerful digital processing provide unprecedented measurement speed. The S-parameter test set options offer full two-port calibration for optimum accuracy. Wide dynamic range allows precise evaluation of high rejection filters. E8508 Emulation.

Includes: E5061A-016 touch LCD screen, E5061A-100 fault location and SRL analysis, E5061A-250 S parameter test set 50 Ohm System Impedance with power cord, E5061A-810 key board, E5061A-820 mouse, E5061A-0BW service manual, E5061A-ABA English local, E5061A-903 USA power cord.

**NEW ON**  
**CONTRACT**



Model	Description	MSRP	Gov Price
E5061A-502	300 kHz–1.5 GHz	\$22,738.00	<b>\$14,010.00</b>

## RF POWER METER



**Agilent**  
E4418B-E23/N

**40% OFF**

**Power Meter Bundle includes:**

**E4418B**—single channel power meter,  
**8481A**—18 GHz -30 dBm to +20 dBm power sensor,  
**8481D**—18 GHz -70 to -20 dBm power sensor,  
**11730A**—power sensor cable,  
**34131A**—transit case & manuals.

Up to 200 readings per second.

**BEST VALUE**



Model	Description	MSRP	Gov Price
E4418B-E23/N	Power Meter Bundle	\$6,345.00	<b>\$3,816.00</b>

## 40 GHz VECTOR NETWORK ANALYZER



**Anritsu**  
37269NV

**36% OFF**

Comprehensive network analysis system designed for passive applications between 40 MHz and 40 GHz. Ideal for defense, satellite, radar and broadband communication applications. The 37269NV standard features include: multiple source control mode and frequency offset, E/O and O/E measurements, rear panel IF inputs, NxN calibration utility for mixer measurements, embed/de-embed application, high stability frequency reference and 1 Hz frequency resolution.

With: Network Analyzer System 40 MHz to 40 GHz (P/N 37269D), High Speed Time (Distance) Domain Capability (P/N 3700-2A), 3653 Type N Calibration Kit with sliding loads (P/N SC6650), SMA/3.5 mm Calibration Kit with sliding terminations (P/N 3650-1), K Connector Calibration Kit with sliding terminations (P/N 3652-1),

K(f)-K(m) Cable, 25 inches (2 each)  
(P/N 3671K50-1), K(f)-GPC-7 Cable, 25 inches (2 each) (P/N 3671A50-1), Precision Adapter, DC to 18 GHz, 50 Ohm, GPC-7-N(f) (P/N 34ANF50), Precision adapter, DC to 18 GHz, 50 Ohm, and GPC-7-N(m) (P/N 34AN50).



Model	Description	MSRP	Gov Price
37269NV	40 GHz	\$106,550.00	<b>\$68,428.00</b>

## PEAK/PULSE POWER METER



**Agilent**  
P-Series

**SAVE**  
**\$6,946**

Wide bandwidth plus fast, accurate and repeatable power measurements makes the P-Series power meters and power sensors ideal for radar, pulsed component and satellite communications testing. Measurement capability includes: peak, average, peak-to-average ratio, rise time, fall time, pulse width, time to positive occurrence and time to negative occurrence; time-gated and free-run measurements. The 30 MHz bandwidth, combined with 100 MS continuous sampling allow the P-Series to specify a 13ns rise/fall time and measure down to 50ns pulse widths. The P-Series is supplied as standard with GPIB, LAN and USB.



Model	Description	MSRP	Gov Price
N1911A-EO1	Includes N1921A & E9300A	\$13,553.73	<b>\$6,912.00</b>
N1911A-EO2	Includes N1921A Power Sensor	\$12,986.00	<b>\$6,040.00</b>

## 40 GHz VECTOR NETWORK ANALYZER

**GSA** Agilent  
E8363B

**SAVE**  
\$16,689

Make vector-error corrected mixer measurements, test multiport components, configure high-power amplifier test set-ups, or millimeter-wave measurements up to 110 GHz (with external mixing). Integrated 2-port test set with 4 receivers—enables TRM/LRM calibration for the most accurate on-wafer, in-fixture, and waveguide measurements. Integrated IMD and harmonic measurement capability.

External Probes to 325 GHz.



Model	Bandwidth	MSRP	GSA Price
E8362C	10 MHz–20 GHz	\$82,580.00	<b>\$73,578.78</b>
E8363C	10 MHz–40 GHz, 2 Port, 4 Receiver	\$105,941.00	<b>\$94,393.44</b>
E8364C	10 MHz–50 GHz	\$122,988.00	<b>\$109,582.31</b>
E8361C	10 MHz–67 GHz	\$153,104.00	<b>\$136,415.67</b>

## HANDHELD CABLE AND ANTENNA TESTER

**GSA** Agilent  
N9330B

**10% OFF**

N9330B is a handheld, easy to use, battery operated cable and antenna tester for field installation and maintenance. It measures return loss, SWR, cable loss and distance-to-fault test functions for wireless service providers (WSPs), Aerospace & Defense engineers and technicians, TV & Broadcasting customers and contractors for the above.



Model	Frequency Range	MSRP	GSA Price
N9330B	25 MHz–4 GHz	\$7,224.00	<b>\$6,436.59</b>

## RF NETWORK ANALYZER

**GSA** Agilent  
ENA-L E5061A

**SAVE**  
\$2,256

The E5061A general purpose network analyzers provide reliable basic S-parameter measurements with easy-to-use features and solid performance based on the latest in modern technologies.

- Integrated T/R or S-parameter test set
- 50 or 75 ohm test port impedance
- 120 dB dynamic range and 0.005 dB rms trace noise
- Built-in Visual Basic® for Applications (VBA)



Model	Description	MSRP	GSA Price
E5061A	300 kHz–1.5 GHz	\$14,741.00	<b>\$13,134.23</b>
E5062A	300 kHz–3 GHz	\$20,699.00	<b>\$18,442.81</b>

**GSA** GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

## RF NETWORK ANALYZER

**GSA** Agilent  
ENA E5071C

**SAVE**  
\$3,384

The E5071C network analyzer offers the highest RF performance and fastest speed in its class, with a wide frequency range and versatile functions. The E5071C is the ideal solution for manufacturing and R&D engineers evaluating RF components and circuits for frequency range up to 20 GHz.



Model	Frequency Range	MSRP	GSA Price
E5071C-240	2-Port, 9 kHz–4.5 GHz	\$31,053.00	<b>\$27,668.22</b>

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40 GHz PSG ANALOG SIGNAL GENERATOR



Agilent  
E8257N

73%  
OFF

Providing premium performance at an affordable price, the E8257N PSG analog signal generator delivers superior level accuracy, low phase noise, and precision analog modulation for accurate characterization of RF and microwave components and devices. The PSG sets a new price performance mark by providing advanced capabilities; including ramp sweep for continuous sweep measurements and fully automated use with the Agilent 8757D scalar network analyzer.

The E8257N is a special version of the E8257D specially made for the Navy and available to other federal agencies through GSAMart. Please review the data sheet to ensure that the E8257N will fulfill your requirements.

LOW PAHASE NOISE  
& ANALOG MODULATION



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CONTRACT

Model	Frequency Range	Description	MSRP	GOV Price
E8257N	10MHz–40GHz	+7dbm to -105dbm, AM/FM/Phase Modulation/Pulse Modulation	\$67,550.00	<b>\$17,632.00</b>

SIGNAL GENERATOR



Agilent  
E4428C ESG Series

SAVE  
\$2,828

Excellent all-inclusive RF and analog modulation performance up to 3 or 6 GHz. The E4428C ESG analog signal generator delivers outstanding spectral purity, level accuracy, output power, and analog modulation performance up to 3 or 6 GHz for all general-purpose test needs. This makes the E4428C ESG a superb choice for general-purpose tests requiring CW, AM, ØM, and FM receiver and component test signals in the cellular, ISM, and UNII frequency bands.



Model	Frequency Range	Description	MSRP	GOV Price
E4428C-503	250 KHz–3 GHz	Electronic Attenuator Standard	\$19,610.00	<b>\$17,472.51</b>
E4428C-506	250 KHz–6GHz	Mechanical Attenuator Only	\$24,512.00	<b>\$21,840.19</b>

Federal contractors and government agencies are eligible for savings.

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## 40 GHz SPECTRUM ANALYZER



### Rohde & Schwarz FSP-38

**63%  
OFF**

Full-featured 9 kHz–40 GHz spectrum analyzer with the smallest level measurement uncertainty in its class at an unbeatable price. Physically robust and reliable with excellent RF characteristics.

- Resolution bandwidth 1 Hz–10 MHz
- Displayed average noise level -155 dBm (1 Hz)
- 3-year warranty

### **SUPER-HETERODYNE RECEIVER**

This NAVICP model includes: FSP-B1, FSP-B4, FSP-B10 and FSP-B20.



Model	Description	MSRP	Gov Price
FSP-38	9 kHz–40 GHz, 140–+30 dBm, RBW 10 Hz–10MHz, TFT Color Display	\$45,715.00	<b>\$16,656.00</b>
Options	Description	MSRP	Gov Price
FS-K30	Firmware for Noise Figure & Gain Measurements for FSMR, FSP, FSQ, FSU	\$6,070.00	<b>\$6,009.30</b>
FS-K40	Firmware for Phase Noise for FSMR, FSP, FSQ, FSU	\$4,900.00	<b>\$4,655.00</b>
FS-K7	AM/FM/PM Measurement Demodulator	\$2,500.00	<b>\$2,475.00</b>
FS-K9	Measurements with NRP Power Sensors (NRPZ11/Z21/Z23/Z24/ Z51/Z55/Z91)	\$660.00	<b>\$653.40</b>
FSP-B16	LAN Interface to 10/100 BaseT	\$980.00	<b>\$970.20</b>
FSP-B29	20 Hz Frequency Extension	\$1,250.00	<b>\$1,237.50</b>
FSP-B30	DC Power Supply	\$1,305.00	<b>\$1,291.95</b>
FSP-B31	NiMH Battery Pack	\$1,780.00	<b>\$1,762.20</b>
FSP-B3	Audio Demodulator AM/FM for FSP Internal Speaker, Control & Phone Connection	\$680.00	<b>\$673.20</b>
FSP-B6	TV Trigger & Adjustable RF Power Trigger (40 dB)	\$1,300.00	<b>\$1,287.00</b>
FSP-B9	Tracking Generator 9 kHz–3.6 GHz, I/Q Modulator	\$3,830.00	<b>\$3,791.70</b>

## 6 GHz HANDHELD SPECTRUM ANALYZER



### Rohde & Schwarz FSH6

**SAVE  
\$11,350**

Hand-held design ideal for remote installation and maintenance. Large number of measurement functions and excellent characteristics for research, development and service tasks. Ideal spectrum analyzer for rapid, high-precision, cost-effective signal investigations.

\*FSH6-N & FSH-NTG includes: 6 GHz handheld spectrum analyzer (P/N FSH6), remote control capability (P/N FSH-K1), soft carry bag (P/N FSH-Z25), and USB interface cable (P/N FSH-Z37). FSH-K1 Remote Control Capability, FSH-Z25 Soft Carrying Case, FSH-Z37 USB Interface Cable, External AC Power Supply, Operating Manual, and Headphones.



Model	Max Frequency	Includes	MSRP	Gov Price
FSH6-N*	6 GHz	Preamplifier	\$14,040.00	<b>\$3,881.00</b>
FSH6-NTG*	6 GHz	Tracking Generator, Preamplifier	\$17,440.00	<b>\$6,090.00</b>



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## HANDHELD SPECTRUM ANALYZER

**GSA** Rohde & Schwarz  
FSH4/8

**FREE  
7-DAY  
TRIAL**

The FSH4/8 spectrum analyzer is rugged, handy and designed for use in the field. Its low weight, its simple, well-conceived operation and the large number of measurement functions make it an indispensable tool for anyone who needs an efficient measuring instrument for outdoor work.

- Frequency range from 9 kHz to 3.6 GHz or 8 GHz
- High sensitivity ( $-141$  dBm (1 Hz), with preamplifier  $-161$  dBm (1 Hz))
- Low measurement uncertainty ( $<1$  dB)
- Measurement functions for all important measurement tasks related to the startup and maintenance of transmitter stations
- Internal tracking generator and VSWR bridge with built-in DC voltage supply
- Two-port network analyzer
- LAN and USB interface for remote control and transfer of measurement data



Model	Frequency Range	MSRP
FSH4	9 kHz–3.6 GHz	\$8,950.00
FSH8	9 kHz–8 GHz	\$13,150.00

**Call For  
Best Price**

## 18 GHz HANDHELD SPECTRUM ANALYZER

**GSA** Rohde & Schwarz  
FSH18

**FREE  
7-DAY  
TRIAL**

The FSH18 is the ideal spectrum analyzer for rapid, high-precision, cost-effective signal investigations. It provides a large number of measurement functions and so can handle anything from the installation or maintenance of a mobile radio base station up to on-site fault location in RF cables as well as development and service—an extensive range of applications.

- Robust edge protection, carrying handle
- Easy operation
- Four hours operating time on battery
- Storage of up to 256 traces and setups
- Easy data transfer to PC
- High measurement accuracy
- Best RF characteristics in its class



Model	Frequency Range	MSRP
FSH18	10 MHz–18 GHz	\$18,500.00

**Call For  
Best Price**

## SIGNAL GENERATOR

**GSA** Rohde & Schwarz  
SMx100A Series

The Rohde & Schwarz SMx100A series offers a variety of analog and digital signal generators with a starting frequency of 9 kHz and ranging up to 6 GHz.

- The SMA100A is a high-end instrument with outstanding performance in SSB phase noise, wideband noise and non-harmonics.
- The SMB100A sets new standards in the midrange with good RF performance and output power up to typically +25 dBm.
- The SMBV100A is a vector signal generator that can be equipped with an internal baseband generator to allow generation of a number of digital standards such as 3G99, GPS, GSM, 801.11 & 801.16.
- The SMC100A smallest size (half rack X 2U!) and best price/performance ratio in its class.



Model	Note	Base MSRP	1.1 GHz MSRP	2.2 GHz MSRP	3.2 GHz MSRP	6 GHz MSRP
SMA100A	Precision	\$3,260.00	-	-	\$15,470.00	\$20,670.00
SMB100A	Mid range	\$1,810.00	\$4,740.00	\$5,980.00	\$6,600.00	\$13,910.00
SMBV100A	Vector	\$3,300.00	-	-	\$12,000.00	\$21,000.00
SMC100A	Economy	\$1,500.00	\$3,800.00	-	\$5,700.00	-

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Best Price**

Federal contractors and government agencies are eligible for savings.

See more products at [www.gsamart.com](http://www.gsamart.com)

## VECTOR NETWORK ANALYZER

### **GSA** Anritsu VectorStar MS4640A Series

Anritsu's MS4640A VNA offers the broadest coverage in a single instrument, 70 kHz to 70 GHz. The additional two decades at the low end are even more impressive than the guaranteed 70 GHz coverage on the high end, for better device modeling without having to switch to another RF VNA. The industry leading 100 dB dynamic range at 70 GHz, coupled with excellent raw performance, will offer the best accuracy and stability to the toughest measurements. And when you can achieve synthesized sweeps at the industry fastest 20  $\mu$ s/point, while achieving greater than 80dB sensitivity, the result is the best all-around VNA available on the market today, and for a long time to come.



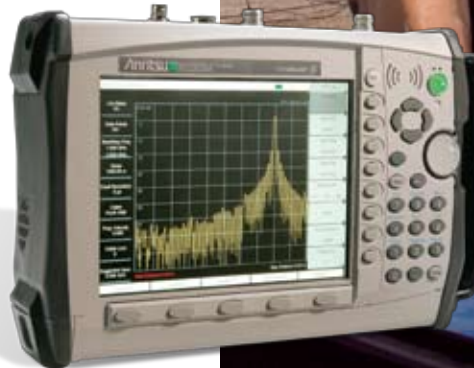
Model	Description	MSRP	GSA Price
MS4642A	10 MHz to 20 GHz, 2-port, K(male)	\$80,950.00	<b>\$77,307.25</b>
MS4644A	10 MHz to 40 GHz, 2-port, K(male)	\$104,950.00	<b>\$100,227.25</b>
MS4647A	10 MHz to 70 GHz, 2-port, V(male)	\$154,600.00	<b>\$147,643.00</b>

## 2 PORT NETWORK ANALYZER/SPEC. ANALYZER

### **GSA** Anritsu VNA Master

Providing high performance 1-port and 2-port measurements from 2 MHz to 6 GHz. Better than three hour battery life. Flexibility to make measurements anywhere. Key measurement features include: Vector corrected 1-port and 1-path 2-port measurements, Vector Voltmeter, Return Loss, Cable Loss, VSWR, Smith Chart, 1-Port Phase, 2-Port Phase, Distance-To-Fault (RL/VSWR).

Standard accessories include: MS2024A/MS2026A User's Guide (P/N 10580-00166), Soft Carrying Case (P/N 65729), Master Software Tools CD ROM (P/N 2300-498), Rechargeable Li-Ion Battery (P/N 633-44), AC/DC Adapter (P/N 40-168-R), Automotive Cigarette Lighter/12 Volt DC Adapter (P/N 806-141), 10 ft. USB A-to Mini B Cable (P/N 3-2000-1498), 7 ft Ethernet Cable (P/N 2000-1371), 2 GB USB Memory Drive (P/N 2000-1520-R), 7 ft Crossover Cable (P/N 3-806-152), 2512 MB Compact Flash Card (P/N 3-2000-1567) and One Year Warranty.



Model	Description	MSRP	GSA Price
MS2024A	VNA Master, 2 MHz-4 GHz	\$12,500.00	<b>\$11,937.50</b>
MS2026A	VNA Master, 2 MHz-6 GHz	\$14,900.00	<b>\$14,229.50</b>
MS2034A	VNA Master & Spectrum Analyzer 9 kHz-4 GHz	\$16,950.00	<b>\$16,187.25</b>
MS2036A	VNA Master & Spectrum Analyzer 9 kHz-7.1 GHz	\$21,950.00	<b>\$20,962.25</b>
MS20xxA-015	Vector Voltmeter Option	\$695.00	<b>\$663.73</b>

**GSA** GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.



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70 GHz SIGNAL GENERATOR

GSA Anritsu  
MG3690B Series

Excellent performance with outstanding output power, best in class spectral purity, digital/analog frequency sweeping, and internal/external-drive amplitude, frequency, phase and pulse modulations. Applications to 325 GHz.



SAVE  
\$2,394

Model	Frequency Range	Max Output Power	MSRP	GSA Price
MG3691B	2 GHz–10 GHz	13 dB	\$17,800.00	<b>\$16,999.00</b>
MG3692B	2 GHz–20 GHz	13 dB	\$19,750.00	<b>\$18,861.25</b>
MG3693B	2 GHz–30 GHz	6 dB	\$29,350.00	<b>\$28,029.25</b>
MG3694B	2 GHz–40 GHz	6 dB	\$32,900.00	<b>\$31,419.50</b>
MG3695B	2 GHz–50 GHz	3 dB	\$46,950.00	<b>\$44,837.25</b>
MG3696B	2 GHz–70 GHz	3 dB	\$65,200.00	<b>\$62,266.00</b>
MG3690B/4	Option 4, RF Coverage 10 MHz–2.2 GHz	-	\$2,550.00	<b>\$2,435.25</b>

SPECTRUM SIGNAL FFT ANALYZER

GSA Anritsu  
LMR Master™ S412D

The LMR Master is the ideal instrument for technicians and engineers testing the RF performance of P25 and iDEN radios in the VHF/UHF, 400 MHz, 700 MHz, and 800 MHz bands. It can be configured to be equipped with a cable & antenna analyzer, spectrum analyzer, interference analyzer, channel scanner, RSSI, AM/FM demodulation, RF power meter, GPS receiver, and P25 Tx Signal Analyzer P25 RF measurements, P25 Talk-Out Coverage Measurements, and iDEN Signal Analyzer. The high performance 25 MHz to 1600 MHz cable & antenna analyzer can be used to sweep cables and antenna systems. Frequency Domain Reflectometry (FDR) based Return Loss and VSWR measurements are used to characterize antenna systems. The Distance-To-Fault (DTF) measurement can easily spot poor connections, contamination, damaged cables, and water penetration.



Model	Description	MSRP	GSA Price
S412D	Multi-function Radio Tester	\$9,950.00	<b>\$9,502.25</b>

Federal contractors and government agencies are eligible for savings.



## CABLE & ANTENNA ANALYZER

### **GSA** Anritsu Site Master S330 Series

**SAVE  
\$463**

Site Master's Frequency Domain Reflectometry based Return Loss, SWR, Cable Loss, and Distance-To-Fault measurements break away from the traditional fix after failure maintenance process by finding small, hard to identify problems before major failures occur. This light weight 5 lbs instrument was specifically designed for field environments and can easily withstand the day-to-day punishment of field use.



Model	Freq. Range	Spec. Anl. Range	MSRP	GSA Price
S331D	2 MHz–6 GHz	-	\$7,160.00	<b>\$6,837.80</b>
S332D	2 MHz–6 GHz	100 kHz–3 GHz	\$10,300.00	<b>\$9,836.50</b>
PSN50	High Accuracy Power Sensor 50 MHz–6 GHz		\$1,700.00	<b>\$1,623.50</b>

## BROADBAND CABLE & ANTENNA ANALYZER

### **GSA** Anritsu Site Master S800 Series

**SAVE  
\$924**

This Site Master is a battery operated handheld for microwave communication systems field installation, verification, troubleshooting and repair. Ideal TDR replacement tool for avionics, radar and military communication line sweeping and fault detection. Technical sophistication in a ruggedized, lightweight, compact and high-impact housing. Weather resistant seals and a rubber membrane keypad protects unit from dirt and moisture.

**ADD THE  
PSN50 POWER SENSOR  
TO TROUBLE SHOOT  
YOUR PROJECTS'  
MOST DIFFICULT  
PROBLEMS.**



Model	Frequency Range	MSRP	GSA Price
S810D	25 MHz–10.5 GHz	\$13,600.00	<b>\$12,988.00</b>
S820D	25 MHz–20 GHz	\$20,550.00	<b>\$19,625.25</b>
PSN50	High Accuracy Power Sensor 50 MHz–6 GHz	\$1,700.00	<b>\$1,623.50</b>

## BASE STATION ANALYZER

### **GSA** Anritsu Cell Master MT8212B

**SAVE  
\$628**

The MT8212B Cell Master combines all of the tools required for maintaining and troubleshooting base stations. Functionality includes: cable and antenna analyzer, spectrum analyzer, AM/FM demodulator, power meter, channel scanner, transmission measurement, interference analyzer, GPS receiver, CDMA One/CDMA 2000 1x measurements, CDMA 2000 1xEV-DO measurements, GSM measurements, iDEN and T1/E1 analyzer.



Model	Description	MSRP	GSA Price
MT8212B	Cable & Antenna Analyzer & Power Meter 4-5 MHz–3 GHz	\$13,950.00	<b>\$13,322.25</b>
PSN50	High Accuracy Power Sensor 50 MHz–6 GHz	\$1,700.00	<b>\$1,623.50</b>

## MICROWAVE SPECTRUM ANALYZER

### **GSA** Anritsu MS271xB

**SAVE  
\$920**

Advanced Spectrum Analysis for Manufacturing, R & D and General Purpose Testing. Frequency ranges embrace most of the wireless communications and defense RF and Microwave testing needs. Wide, 100 dB dynamic range, excellent spectral purity, with typical phase noise of  $-110$  dBc/Hz at 10 kHz offset (MS2717B). Increased repeatability and throughput of local oscillator testing. Outstanding value for lowering cost-of-test and reducing capital equipment expenditures.



Model	Bandwidth	MSRP	GSA Price
MS2717B	9 kHz–7.1GHz	\$13,450.00	<b>\$12,844.75</b>
MS2718B	9 kHz–13 GHz	\$17,450.00	<b>\$16,664.75</b>
MS2719B	9 kHz–20GHz	\$20,450.00	<b>\$19,529.75</b>

**GSA** GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

**NAVICPMart** contract products, (N00104-01-D-X407), are pre-negotiated and comply with Competition in Contracting Act (CICA). Free shipping FOB U.S. destinations.

## PEAK AND PULSE POWER METERS

### GSA Anritsu ML2400 Series Power Meters

**SAVE  
\$422**

Anritsu offers the world's most comprehensive range of power meters. The ML2490A series has the best in class sample rate of 1 GS/s and 65 MHz bandwidth essential for measuring narrow fast rising-edge pulse power measurements (e.g. radar). The best in class ML2480B series has a sample rate of 64 MS/s and 20 MHz bandwidth suited for wideband power measurements on signals such as W-CDMA, WLAN, and WiMAX.



Choose from six different families of MA2400/MA24000 series power sensors with frequency coverage to 50 GHz and dynamic range up to 90 dB.

Model	Description	MSRP	GSA Price
ML2495A	Wideband Peak, 1 Ch, 65 MHz	\$7,185.00	<b>\$6,861.67</b>
ML2496A	Wideband Peak, 2 Ch, 65 MHz	\$9,385.00	<b>\$8,962.67</b>
ML2487B	Wideband, 1 Ch, 20 MHz	\$5,270.00	<b>\$5,032.85</b>
ML2488B	Wideband, 2 Ch, 20 MHz	\$6,220.00	<b>\$5,940.10</b>
MA2490A	Wideband Sensor, 50 MHz–8 GHz	\$2,690.00	<b>\$2,568.95</b>
MA2411B	Pulse Profiling, 300 MHz–40 GHz	\$3,600.00	<b>\$3,438.00</b>

## USB POWER SENSOR

### GSA Anritsu MA24106A

**WORKS WITHOUT  
POWER METER**

The MA24106A USB power sensor eliminates the need of a traditional power meter. It is a highly accurate, standalone instrument that communicates with a PC via USB. The power measurement capability of MA24106A is intended to mimic that of a traditional thermal (thermo-electric) power sensor with a wider dynamic range. It is ideal for measuring average power of CW, modulated RF waveforms 3G, 4G, OFDM, and multi-tone signals. It measures true RMS power regardless of the type of the input signal. The presence of a micro-controller along with signal conditioning circuitry, ADC, and power supply in the sensor makes it a complete miniature power meter. The Anritsu Power Meter application for personal computers running Microsoft Windows can be used to control and operate the sensor. It is available standard with the product.



Model	Description	MSRP	GSA Price
MA24106A	USB Power Sensor	\$2,400.00	<b>\$2,292.00</b>

## 3–6 GHz VECTOR/ARB SIGNAL GENERATOR

### GSA Anritsu MG3700A

**SAVE  
\$1,384**

Vector signal generator with integrated arbitrary waveform generator that supports digital modulation of signals for all major wireless communication systems including wireless LANs. A 160 MHz high-speed arbitrary waveform baseband generator, wide vector modulation bandwidth, and large capacity ARB memory provide signal generation for next generation wireless communication systems. Combined with the MS2781A, it creates the ideal test platform for unique GPS, SDR, and JTRS waveform generation, capture, and testing. An option extends upper frequency to 6 GHz.



Model	Description	MSRP	GSA Price
MG3700A	250 kHz–3 GHz	\$30,770.00	<b>\$29,385.37</b>
MG3700A-011	6 GHz Option	\$8,792.00	<b>\$8,396.37</b>

## MICROWAVE SIGNAL GENERATOR

### GSA Anritsu MG37020A

**SAVE  
\$1,091**

The MG37022A Fast Switching Microwave Signal Generator covers both RF and microwave frequencies from 10 MHz to 20 GHz. With 100 µsec per point typical switching speed it is an ideal signal source for RF and microwave applications requiring frequency agility, including data intensive applications such as antenna testing and satellite payload testing, high throughput applications such as RFIC and MMIC testing, and defense applications including radar and EW receiver testing.

The MG37022A also offers high output power, low phase noise, excellent spectral purity, and high performance pulse modulation.



Model	Frequency Range	MSRP	GSA Price
MG37022A	10 MHz–20 GHz	\$24,250.00	<b>\$23,158.75</b>

## MILITARY RADIO TEST SET



### Aeroflex 3515

**SAVE  
\$5,836**

Aeroflex Military Radio Test Set with the latest in portability, battery life and performance. Developed for military use and is capable of measuring high power (20 watts without an external attenuator, up to 200 watts with an external attenuator provided), as well as finding faults in antennas, power amplifiers and interconnects. The 3515 meets the needs of a variety of vehicle radio tests, as well as commercial radio applications. With extensive operational capability, provides portable test features that are typically found in bench top radio test equipment.

\*Aeroflex 3515N Includes: 3515 1 GHz Handheld Radio Test Set, Accessory Box 3500/3515 (For Adaptors), Soft Side Carrying Case 355/3515, Hard-side Case, Short/Open/Load VSWR Adaptor 1 GHz, Fuse 5A 32V Mini Blade, qty 2, Power Supply Cord AC 120V, Cable Assembly Microphone, Mech Assembly Handset, Mach Assembly Break out Box of USB and Audio, Power Supply, Connector, Female BNC/TNC (qty 5), Cable, BNC Male/BNC Male (qty 5), Cable, TNC Male/TNC Male, DC Cable-Cigarette Adaptor, Battery-Satndard, CD/OP Manual, Getting Started Manual, Antenna 800MHz, Antenna 150MHz, Antenna 450MHz, Antenna 50MHz, N to BNC Adaptor, N Male to TNC Male Adaptor, Female to MNC Female Adaptor, qty 2, Attenuator 50W, Attenuator 150W, NATO Plug Kit for DC Power, Flip Cover, H-250 Military Handset Mechanical Adaptor.



Model	Description	MSRP	Gov Price
3515A	Military-Spec VHF/UHF Radio Test Set, Ground & Airborne Applications	\$14,692.00	<b>\$14,398.16</b>
3515N	*See Note For All Items Included	\$14,900.00	<b>\$9,064.00</b>

## SWITCHING FREQUENCY SYNTHESIZER



### Aeroflex FS5000 Series

**SAVE  
\$7,645**

Developed to support the most stringent military requirements. The architecture as well as its implementation has been specifically geared to furnishing military qualified, high reliability units Ideal for: agile radar and radar simulators, radar upgrades, fast antenna and RCS measurements, electronic warfare systems and ultra fast ATE.



**RADAR  
TESTING**

Model	Frequency Range	MSRP	GSA Price
FS5000B-13	0.3 GHz-13.5 GHz	\$130,900.00	<b>\$124,355.00</b>
FS5000B-18	0.3 GHz-18.0 GHz	\$136,400.00	<b>\$129,580.00</b>
FS5000B-20	0.3 GHz-20.0 GHz	\$141,900.00	<b>\$134,805.00</b>
FS5000B-26.5	0.3 GHz-26.5 GHz	\$152,900.00	<b>\$145,255.00</b>



GSA contract products, (GS24F0066M, GS35F0311R, GS07F0198U, GS07F0437U). Small business credit applies. Free shipping FOB U.S. destinations.

## RADIO COMMUNICATION TEST SYSTEM



### Aeroflex RCTS Series

**SAVE  
\$3,957**

Self-contained, transportable, semi-automated Radio Test Systems presently fielded for use by the US Armed Forces. These instruments are used for operational verification testing and/or repairs of multiple radio systems. Full functional testing of all operational modes are available.

Ships only to USA address, ITAR controlled.



Model	Radio Platform	MSRP	GSA Price
RCTS-001	SINCGARS	\$52,990.00	<b>\$50,339.95</b>
RCTS-002	ARC-222 & ARC-186	\$79,127.00	<b>\$75,170.65</b>
RCTS-002HQ	ARC-222, ARC-186, ARC-164	\$84,999.00	<b>\$80,749.05</b>
RCTS-003B	LRUs (i.e. PRC-xxx & URT-xxx)	\$52,936.00	<b>\$51,877.28</b>



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## PROJECT 25 RADIO TEST SET



**Aeroflex**  
2975

**16%  
OFF**

Full-featured communications service monitor for complete transmitter spectrum performance testing. Swept antenna/transmission line testing. At-a-glance troubleshooting. Standard with digitized 2.7 GHz spectrum analyzer and dual-channel digital storage oscilloscope. More than 20 discrete instruments integrated into a single platform.

Both the 2975F and the 2975N include: Opt. 3: SmartNet/SmartZone testing, Opt. 10: AES (export restricted), Opt. 12: KVL keyloader, accessory bundle (p/n AC25100): microphone/audio adapter (p/n AC25007), soft padded carrying case (p/n AC25012), front/rear cover (p/n AC25023), TNC to BNC adapter (p/n AC25027), accessory pouch (p/n AC25029), hard case (p/n AC25011). The 2975N also includes: Opt. 4: P25 trunking radio test, and Opt. 14: P25 trunking VHF/UHF 700 MHz.



Model	Includes	MSRP	Gov Price
2975	AC25007 Microphone/Audio Adapter	\$21,495.00	<b>\$20,419.80</b>
2975F	See Note	\$29,754.00	<b>\$26,646.00</b>
2975N	See Note	\$34,554.00	<b>\$28,850.00</b>

## COMMUNICATIONS SERVICE MONITOR



**Aeroflex**  
2947A

**45%  
OFF**

The 2947A communications service monitor is built to meet the demanding requirements of US Navy and Federal Aviation Administration radio communications testing. It provides an excellent combination of spectrum analyzer, tracking generator, RF power meter, 50 kHz digital oscilloscope and two variable audio generators in a single instrument.

The 2947A includes: Option 15 EDACST<sup>™</sup> Radio Test, Option 16 EDACST<sup>™</sup> Repeater Test, Option 30 Bail Arm and Front Panel Stowage Cover, AC Supply Lead (23422/005), DC Supply Lead (43138/755), BNC Telescopic Antenna (54421/001), Microphone with PTT (Push To Talk) (44991/145), Operating manual (46882/285), Service manual (46882/286) and Training tape.



Model	Description	MSRP	Gov Price
2947A	50 kHz	\$26,589.00	<b>\$14,410.00</b>

## PROGRAMMABLE RF TESTER



**Aeroflex**  
SDX 2000

**SAVE  
\$1,030**

This fully programmable RF tester that provides complete test capability for all commercial and military pulsed L-Band avionics: ATCRBS and Mode-S Transponder (including data link), DME, TACAN and IFF (Identification Friend or Foe).



Model	Description	MSRP	GSA Price
SDX 2000-110	RF Tester	\$51,500.00	<b>\$50,470.00</b>
SDX 2000-220	RF Tester	\$51,500.00	<b>\$50,470.00</b>

Government agencies save on all 70,000+ GSA models online at [www.gsasart.com](http://www.gsasart.com)