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#### N9344C HSA

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- Optional, built-in GPS receiver and GPS antenna
- Dedicated applications for spectrum monitoring and interference analysis
- Flexible remote control via USB/LAN

See inside for details

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# Call Toll Free 888-665-2765

## VECTOR VM, RF CABLE & ANTENNA ANALYZER

### GSA FieldFox RF Analyzer

The world's most integrated handheld instrument for wireless network installation and maintenance. Combines cable/antenna analysis, spectrum analysis, independent signal generator, interference analysis, power meter measurements, vector network analysis and a vector voltmeter into one rugged, compact, lightweight and weather-resistant package.



Model	Description	MSRP	GSA Price
N9912A	RF Analyzer 4 GHz Cable & Antenna Analyzer	\$7,614.00	<b>\$6,784.08</b>
N9923AN	RF Vector Network Analyzer, 2 MHz–4 GHz & Vector Voltmeter Emulation	\$12,000.00	<b>\$5,651.00</b>
Options	Description	MSRP	GSA Price
N9912A-106	6 GHz Cable & Antenna Analyzer	\$1,003.00	<b>\$893.67</b>
N9912A-110	Transmission Measurement	\$1,389.00	<b>\$1,237.60</b>
N9912A-111	QuickCal	\$971.00	<b>\$865.16</b>
N9912A-230	4 GHz Spectrum Analyzer	\$3,706.00	<b>\$3,302.05</b>
N9912A-231	6 GHz Spectrum Analyzer	\$6,713.00	<b>\$5,981.28</b>
N9912A-235	Preamplifier for Spectrum Analysis Capability	\$751.00	<b>\$669.14</b>
N9912A-236	Interference Analyzer	\$1,699.00	<b>\$1,513.81</b>
N9912A-302	External USB Power Sensor Support	\$500.00	<b>\$445.50</b>
N9912A-303	Network Analysis Capability	\$700.00	<b>\$624.00</b>
N9912A-308	Vector Voltmeter	\$1,580.00	<b>\$1,407.78</b>

## HANDHELD SPECTRUM ANALYZER

### GSA N934X HSA Family

**UP TO 20 GHz**

If you are making measurements in the field, the Agilent N934x family of handheld spectrum analyzers (HSA) makes your job easier. Built in a rugged, fanless, and compact chassis they have features you need for operating in tough field environments, and measurement performance that gives you confidence the job's been done right. The HSAs let you automate routine tasks to save time and ensure consistent results. Field testing just got easier.



Navy Model	Description	MSRP	GSA Price
N9342CN	Handheld Spectrum Analyzer, 100 KHz–6GHz	\$11,113.00	<b>\$3,310.00</b>
N9342CNTG	Handheld Spectrum Analyzer, 100 KHz–6 GHz w/ Tracking Generator Option	\$13,592.00	<b>\$3,970.00</b>
N9342CN-520	20 GHz Upgrade	\$18,898.00	<b>\$16,838.12</b>
N9342CN-SIM	Spectrum Monitor	\$1,653.00	<b>\$1,472.82</b>
N9342CN-LAN	LAN PORT TCP/IP	\$1,042.00	<b>\$928.42</b>
N9342CN-PWS	Power Suite Measurements	\$1,343.00	<b>\$1,196.61</b>
Model	Description	MSRP	GSA Price
N9340B	Handheld Spectrum Analyzer, 100 KHz–3GHz	\$7,987.00	<b>\$7,116.42</b>
N9342C	Handheld Spectrum Analyzer, 100 KHz–7 GHz	\$11,113.00	<b>\$9,901.68</b>
N9343C	Handheld Spectrum Analyzer, 1 MHz –13.6 GHz	\$16,979.00	<b>\$15,128.29</b>
N9344C	Handheld Spectrum Analyzer, 1 MHz–20 GHz	\$19,963.00	<b>\$17,787.03</b>
N9311X-508	Directional Antenna	\$1,656.37	<b>\$1,859.00</b>

Federal contractors and government agencies are eligible for savings.

SIGNAL ANALYZER

**GSA** CXA Ng9000A Series

The CXA is well-suited to manual or automated testing of RF components such as amplifiers and filters, as well as electronic products such as cordless phones, wireless LAN routers and wireless paging systems. Measurement capabilities include general-purpose spectrum analysis and one-button PowerSuite measurements. For greater flexibility, you can quickly configure—and reconfigure—the CXA with a variety of software applications for specific measurements such as phase noise, noise figure and analog demodulation. Licensing upgrades make changeovers fast and easy.



Model	Description	MSRP	GSA Price
N9000A-507	9 kHz–7.5 GHz	\$16,361.00	<b>\$14,577.65</b>
N9000A-FSA	Fine Resolution Attenuator	\$1,038.00	<b>\$924.86</b>
N9000A-P07	Preamplifier, 7.5 GHz	\$2,583.00	<b>\$2,301.45</b>
N9000A-To3	Tracking Gen 9 kHz–3 GHz	\$3,609.00	<b>\$3,609.00</b>
N9000A-To6	Tracking Gen 9 kHz–6 GHz	\$5,671.00	<b>\$5,671.00</b>

SIGNAL ANALYZER

**GSA** EXA N9010A Series

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. In addition to the use of an open Windows® XP Professional operating system, the EXA provides an advanced user interface. All measurements are intuitively grouped and accessible from the front panel or via a USB keyboard and mouse.



Model	Frequency Range	MSRP	GSA Price
N9010A-503	9 kHz–3.6 GHz	\$17,095.00	<b>\$15,231.65</b>
N9010A-507	9 kHz–7.0 GHz	\$25,166.00	<b>\$22,422.90</b>
N9010A-513	9 kHz–13.6 GHz	\$29,660.00	<b>\$26,427.06</b>
N9010A-526	9 kHz–26.5 GHz	\$34,982.00	<b>\$31,168.96</b>

SIGNAL ANALYZER

**GSA** PXA N9030A Series

The Agilent N9030A PXA signal analyzer provides frequency coverage up to 26.5 GHz and ensures present and future flexibility through optional measurement capabilities and hardware expandability. As the flagship of the X-Series signal analyzers, the PXA delivers exceptional performance that reduces measurement uncertainty and reveals new levels of signal detail, starting with up to 75 dB spurious-free dynamic range at the 140-MHz analysis bandwidth. Industry-leading specifications include –129 dBc/Hz phase noise at 10 kHz offset (1 GHz), ±0.19 dB absolute amplitude accuracy, and sensitivity of –172 dBm displayed average noise level (DANL) at 2 GHz (with preamplifier and Noise Floor Extension technology).



Model	Frequency Range	MSRP	GSA Price
N9030A-513	3 Hz–13.6 GHz	\$61,956.00	<b>\$55,202.80</b>
N9030A-526	3 Hz–26.5 GHz	\$66,288.00	<b>\$59,062.61</b>

SIGNAL ANALYZER

**GSA** MXA N9020A

The MXA signal analyzer takes signal and spectrum analysis to the next generation, offering the highest performance in a midrange signal analyzer with the industry's fastest signal and spectrum analysis, eliminating the compromise between speed and performance. With a broad set of applications and demodulation capabilities, and intuitive user interface, outstanding connectivity and powerful one-button measurements, the MXA is ideal for both R&D and manufacturing engineers working on cellular, emerging wireless communications, general purpose, aerospace and defense applications.

LXI class C compliant.



Model	Description	MSRP	GSA Price
N9020A-503	20 Hz–3.6 GHz	\$29,948.00	<b>\$26,683.67</b>
N9020A-508	20 Hz–8.4 GHz	\$38,535.00	<b>\$34,334.67</b>
N9020A-513	20 Hz–13.6 GHz	\$42,214.00	<b>\$37,612.67</b>
N9020A-526	20 Hz–26.5 GHz	\$47,374.00	<b>\$42,210.23</b>

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## SIGNAL GENERATOR

### GSA ESG E4428C Series

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,  $\emptyset$ M, and FM receiver and component test signals in the cellular, ISM, and UNII frequency bands.



Model	Frequency Range	MSRP	GSA Price
E4428C-503	250 KHz–3 GHz	\$20,041.00	<b>\$17,856.53</b>
E4428C-506	250 KHz–6 GHz	\$25,051.00	<b>\$22,320.44</b>

## SIGNAL GENERATOR

### GSA PSG

RF and microwave signal generator excellence - Agilent PSG microwave and RF signal generators offer the industry's best performance for CW and analog modulation up to 67 GHz and advanced vector modulation up to 44 GHz.



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.

Model	Frequency Range	MSRP	GSA Price
E8257N	10 MHz–40 GHz	\$67,550.00	<b>\$17,276.00</b>
E8257D	250 kHz–67 GHz		
E8267D	250 kHz–44 GHz		
E8663D	100 kHz–9 GHz		

**Call For  
GSA Price**

## MICROWAVE ANALOG SIGNAL GENERATOR

### GSA MXG Series



N5183A MXG microwave analog signal generators deliver the performance needed for broadband component manufacturing up to 40 GHz. This instrument provides  $\leq 900 \mu$ 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.

**OPTIMIZED FOR  
PERFORMANCE  
AND SPEED**



Model	Frequency Range	MSRP	GSA Price
N5181A-501	250 kHz–1 GHz	\$6,781.00	<b>\$6,041.87</b>
N5182A-503	250 kHz–3 GHz	\$17,465.00	<b>\$15,561.31</b>
N5183A-520	100 kHz–20 GHz	\$21,069.00	<b>\$18,772.48</b>
N5183A-532	100 kHz–31.8 GHz	\$30,685.00	<b>\$27,340.33</b>
N5183A-540	100 kHz–40 GHz	\$35,655.00	<b>\$31,768.60</b>

## FUNCTION/ARBITRARY WAVEFORM GENERATORS

### GSA 33220A Series

The 33220A series function/arbitrary waveform generators use direct digital synthesis (DDS) techniques to create a stable, accurate output signal for clean, low distortion waveforms. The 33220A series offers up to 16 standard waveforms and modulation types: sine, square, triangle, ramp, pulse, noise,  $\sin(x)/x$ , exponential rise and fall, cardiac, DC volts, arbitrary, AM, FM, PM (33220A only), FSK and PWM (33220A only).

LXI class C compliant.



Model	Max Freq.	MSa/s	MSRP	GSA Price
33210A	10 MHz	50	\$1,221.00	<b>\$1,087.91</b>
33220A	20 MHz	50	\$2,050.00	<b>\$1,826.55</b>
33250A	80 MHz	200	\$4,579.00	<b>\$4,079.89</b>

Federal contractors and government agencies save on Agilent's GSA models at [www.agilent.gsamart.com](http://www.agilent.gsamart.com)

HIGH PERFORMANCE SPECTRUM ANALYZER

**GSA** PSA Series

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	Description	MSRP	GSA Price
E4440A	10 MHz–26.5 GHz	\$87,733.00	<b>\$78,170.10</b>
E4443A	10 MHz–6.7 GHz	\$75,331.00	<b>\$67,119.92</b>
E4445A	10 MHz–13.2 GHz	\$82,063.00	<b>\$73,118.13</b>
E4448A	3 Hz–50 GHz	\$113,872.00	<b>\$101,459.95</b>

MID RANGE PORTABLE SPECTRUM ANALYZER

**GSA** ESA Series

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	\$17,095.00	<b>\$15,231.64</b>
E4404B	9 kHz–6.7 GHz	\$27,783.00	<b>\$24,754.65</b>
E4405B	9 kHz–13.2 GHz	\$30,870.00	<b>\$27,505.16</b>
E4407B	9 kHz–26.5 GHz	\$37,044.00	<b>\$33,006.21</b>
E4407S-E57	40 GHz	\$44,965.00	<b>\$44,965.00</b>

2/4-PORT PNA-X NETWORK ANALYZER

**GSA** N524xA Series

The award-winning Agilent NVNA provides industry-leading performance, accuracy, and configurability to simplify test setups and provide detailed insight into designing nonlinear components. The PNA-X Series network analyzer with NVNA accurately measures and displays the nonlinear behavior of the device under test to deterministically design components, modules and systems.

- Measure amplitude and phase of the full device spectra, traceable to National Institute of Science & Technology (NIST)
- 10 MHz to 50 GHz of vector corrected bandwidth for time domain waveforms of voltage and currents of DUTs
- Gain new insight into your component behavior using X-parameters – the new S-parameters for nonlinear measurements



Model	Frequency Range	MSRP	GSA Price
N5241A	10 MHz–13.5 GHz		
N5242A	10 MHz–26.5 GHz		
N5245A	10 MHz–50.0 GHz		



## HANDHELD RF POWER METER

### GSA V3500A

The V3500A Handheld RF Power Meter is a compact, handheld instrument that makes accurate RF power measurements in both field and manufacturing applications. Absolute accuracy as good as  $\pm 0.21\text{dB}$ , a wide frequency range of 10MHz to 6GHz, and a measurement range of  $-63\text{dBm}$  to  $+20\text{dBm}$ . Its built-in power sensor eliminates the need for users to carry both an instrument and a separate sensor module. Truly portable, the V3500A fits easily into your hand or a toolkit. To optimize flexibility, it is capable of drawing operating power from batteries, an AC-DC converter module, or a computer via USB interface.



**PALM-SIZED  
POWER METER**

Model	Description	MSRP	GSA Price
V3500A	10 MHz–6 GHz	\$1,808.00	<b>\$1,610.93</b>

## PEAK/PULSE POWER METER

### GSA P-Series

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.



**NOW ON  
CONTRACT**

Model	Description	MSRP	GSA Price
N1911A-E01	Includes N1921A & E9300A	\$13,553.73	<b>\$6,379.00</b>
N1911A-E02	Includes N1921A Power Sensor	\$12,986.00	<b>\$6,039.00</b>

## RF POWER METER

### GSA E4418B-E23/N

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.

**NOW ON  
CONTRACT**

**BEST VALUE**



Model	Description	GSA Price
E4418B-E23/N	Power Meter Bundle	<b>\$3,703.00</b>

## RF POWER METER

### GSA EPM Series

Agilent N1913A and N1914A EPM Series power meters offer powerful new features, yet are code compatible (optional feature) with the popular E4418B and E4419B EPM power meters. With a reading rate at twice the speed (E-Series power sensors), flexibility of GPIB, LAN LXI-C or USB connectivity, making average power measurements has never been easier. You can connect two additional U2000 Series power sensors to the power meter via the optional USB hosts, transforming the N1913A and N1914A into 3-channel or 4-channel power meters. Plus, the new color display let you view and analyze test data more easily.



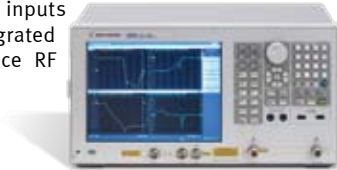
Model	Description	MSRP	GSA Price
N1913A	Single Channel	\$3,888.00	<b>\$3,464.21</b>
N1914A	Dual Channel	\$6,292.00	<b>\$5,606.17</b>

RF NETWORK ANALYZER

**GSA** ENA E5061B

The E5061B RF NA Options (E5061B-1x5/2x5) are the successors of the E5061/62A and they provide high-performance network analysis for testing RF components with easy-to-use features & solid performance based on the latest in modern technologies.

The E5061B LF-RF NA Option (E5061B-3L5) option offers versatile network analysis in the broad frequency range from 5 Hz to 3 GHz. Comprehensive LF network measurement capabilities including built-in 1 MΩ inputs have been seamlessly integrated with the high-performance RF network analyzer.



Model	Description	MSRP	GSA Price
E5061B-115	100 kHz to 1.5 GHz	\$14,818.00	<b>\$13,202.84</b>
E5061B-215	100 kHz to 1.5 GHz	\$20,580.00	<b>\$18,336.78</b>
E5061B-135	S-parameter 50 Ω	\$20,580.00	<b>\$18,336.78</b>
E5061B-235	S-parameter 75 Ω	\$23,667.00	<b>\$21,087.30</b>
E5061B-3L5	5 Hz—3 GHz, 2 Ports	\$31,899.00	<b>\$28,422.01</b>

40 GHz VECTOR NETWORK ANALYZER

**GSA** PNA Series E836xC

Make vector-error corrected mixer measurements, test multipoint 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	\$82,741.00	<b>\$73,722.23</b>
E8363C	10 MHz—40 GHz, 2 Port, 4 Receiver	\$106,148.00	<b>\$94,577.88</b>
E8364C	10 MHz—50 GHz	\$123,228.00	<b>\$109,796.15</b>
E8361C	10 MHz—67 GHz	\$153,403.00	<b>\$136,682.08</b>

RF NETWORK ANALYZER

**GSA** ENA E5071C

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



**WIDE FREQUENCY COVERAGE 9 KHZ—20 GHZ**

Model	Ports	Frequency Range	Bias Tee	MSRP	GSA Price
E5071C-240	2	9 kHz—4.5 GHz	No	\$29,247.00	<b>\$26,059.07</b>
E5071C-245	2	100 kHz—4.5 GHz	Yes	\$29,247.00	<b>\$26,059.07</b>
E5071C-265	2	100 kHz—6.5 GHz	Yes	\$32,500.00	<b>\$28,957.50</b>
E5071C-280	2	9 kHz—8.5 GHz	No	\$36,559.00	<b>\$32,574.08</b>
E5071C-285	2	100 kHz—8.5 GHz	Yes	\$36,559.00	<b>\$32,574.08</b>
E5071C-2K5	2	300 kHz—20 GHz	Yes	\$55,327.00	<b>\$49,296.37</b>
E5071C-440	4	9 kHz—4.5 GHz	No	\$48,049.00	<b>\$42,811.66</b>
E5071C-445	4	100 kHz—4.5 GHz	Yes	\$48,049.00	<b>\$42,811.66</b>
E5071C-480	4	9 kHz—8.5 GHz	No	\$53,271.00	<b>\$47,464.46</b>
E5071C-4D5	4	300 kHz—14 GHz	Yes	\$58,616.00	<b>\$52,226.86</b>

USB POWER SENSOR

**GSA** U2000 Series

The U2000 Series USB power sensors provide plug-and-play connectivity by eliminating the need for a separate power meter. Wide dynamic range power sensors can be used with a PC or selected models of Agilent USB-based instrument.

**Compatible instruments:**

- PNA, PNA-X, PNA-L Series Network Analyzers
- ENA Series Network Analyzer
- Handheld spectrum Analyzer
- MXG signal generator
- Economic spectrum Analyzer
- FieldFox RF Analyzer
- Handheld Cable & Antenna Tester



Model	Frequency Range	Connector	MSRP	GSA Price
U2000A	10 MHz—18 GHz	Type-N (m)	\$3,578.00	<b>\$3,188.00</b>
U2001A	10 MHz—6.0 GHz	3.5 mm (m)	\$2,742.00	<b>\$2,443.11</b>
U2002A	50 MHz—24 GHz	Type-N (m)	\$4,402.00	<b>\$3,922.18</b>
U2004A	9 kHz—6.0 GHz	Type-N (m)	\$3,093.00	<b>\$2,755.86</b>
U2000B	10MHz—18GHz	Type N	\$5,000.00	<b>\$4,455.00</b>
U2000H	10MHz—18GHz	Type N	\$4,052.00	<b>\$3,610.33</b>
U2001B	10MHz—6GHz	3.5mm	\$4,165.00	<b>\$3,711.02</b>
U2001H	10MHz—6GHz	3.5mm	\$3,217.00	<b>\$2,866.35</b>
U2002H	50MHz—24GHz	3.5mm	\$4,887.00	<b>\$4,354.32</b>

# Call Toll Free 888-665-2765

## HANDHELD DIGITAL MULTIMETER

### GSA U1241AN

The Agilent U1241AN handheld digital multimeter enables you to check more with wider measurement ranges. It features true RMS readings on the 10,000-count display. The adjustable backlighting allows you to complete your jobs even in subdued lighting conditions, at the same time prolonging the battery life. Your maintenance tasks are greatly simplified due to the built-in switch counter, harmonic ratio, dual and differential temperature capabilities, with just a press of the button. The meter has a high safety rating with CAT III 1000 V / CAT IV 600 V protection and is certified to CE and CSA standards.



Model	Description	MSRP	GSA Price
U1241AN	10,000 Count Display, 0.1% Basic DCV Accuracy True RMS, 3 Year Warranty	\$200.00	<b>\$131.00</b>

## RF/UNIVERSAL FREQUENCY COUNTER/TIMERS

### GSA 53200 Series

The Agilent 53200 Series is a new generation of 350 MHz RF/universal frequency counter/timers with optional 6 GHz or 15 GHz inputs. The first frequency counters with LXI Class C compliance, the 53200 family is built with LAN and USB I/O for ease of connectivity and data collection. The combination of high-speed measurements and built-in analysis and graphical display provides new functionality that has not previously been available in basic frequency counter/timers.

#### MORE

*Frequency Resolution,  
Information Accessibility,  
Connectivity & Measurement Capability*



Model	Description	Channels	Frequency Res.	Time Interval	MSRP	GSA Price
53210A	RF Frequency Counter	350 MHz	10 digits/sec	NA	\$1,963.00	<b>\$1,749.03</b>
53220A	Universal Frequency Counter/Timer	350 MHz	12 digits/sec	100 psec	\$2,273.00	<b>\$2,025.24</b>
53230A	Universal Frequency Counter/Timer	350 MHz	12 digits/sec	20 psec	\$3,552.00	<b>\$3,164.83</b>

Federal contractors and government agencies are eligible for savings.

DIGITAL MULTIMETER

**GSA** 34400 Series

The 34410A and 34411A offer improved accuracy, expanded measurement capability, dramatically improved measurement speed and throughput, and modern computer interfaces including LAN and USB.

The new L4411A, high-performance system multimeter, 6-1/2 digits, 1U high, DC & AC voltage, DC & AC current, 2 & 4 wire resistance, frequency & period, continuity, diode test, capacitance, temperature; 50,000 rdgs/s; GPIB, LAN, USB, and IntuiLink SW.

**LXI** class C compliant.



Model	Description	Digit	Connectivity	Speed	MSRP	GSA Price
34405A	Value Performance	5.5	USB	19 rdgs/s	\$750.00	<b>\$668.25</b>
34401A	Standard Performance	6.5	GPIB & RS-232	1,000 rdgs/s	\$1,072.00	<b>\$955.15</b>
34410A	High Performance	6.5	GPIB, USB, LAN	10,000 rdgs/s	\$1,298.00	<b>\$1,156.52</b>
34411A	Enhanced Performance	6.5	GPIB, USB, LAN	50,000 rdgs/s	\$2,067.00	<b>\$1,841.70</b>
L4411A	High Performance	6.5	GPIB, USB, LAN	50,000 rdgs/s	\$2,298.00	<b>\$2,047.51</b>

FUNCTION/ARBITRARY WAVEFORM GENERATORS



**GSA** 33500 Series

The Agilent 33521A 1-channel 30 MHz function/arbitrary waveform generator offers the highest signal fidelity and implements a breakthrough technology that provides you with the ability to generate more accurate arbitrary waveforms. With 10x better jitter than anything in its class, it offers unparalleled control of signal frequency for your most challenging measurements. 16 MSA/channel arbitrary waveform memory option. Large, color, graphical display for intuitive operation. TCXO timebase standard, OCXO optional for ultra-high stability. USB and LAN standard and GPIB option.

**Waveform generation**

- 30 MHz sine, square, pulse bandwidth cover more applications
- <40 ps jitter and less than .04% total harmonic distortion for more precise signals
- 250 MSA/s, 16-bit sampling rate for higher time resolution arbitrary waveforms



Model	Description	MSRP	GSA Price
33521A	1-Channel 30 MHz Function/Arbitrary Waveform Generator	\$1,930.00	<b>\$1,719.63</b>
33522A	2-Channel 30 MHz Function/Arbitrary Waveform Generator	\$2,950.00	<b>\$2,628.45</b>

# Call Toll Free 888-665-2765

## DIGITAL OSCILLOSCOPE

### GSA InfiniiVision 2000 X-Series



See more of your signal with the biggest 8.5" (800 x 480) WVGA display and deepest 100k points memory in its class, and fastest waveform update rates up to 50,000 waveforms/second. Do more with the power of up to 3 instruments in 1: oscilloscope, only economy-class logic timing analyzer (opt) and industry's only WaveGen built-in 20 MHz function generator (opt). Get more investment protection with the industry's only fully-upgradable scope, including bandwidth.



Model	Bandwidth	Sample Rate per ch / half ch	Std Memory	Ch	Digital Ch (MSO)	MSRP	GSA Price
DSOX2002A	70 MHz	1 GSa/s / 2 GSa/s	100 kpts	2	-	\$1,230.00	<b>\$1,095.93</b>
DSOX2004A	70 MHz	1 GSa/s / 2 GSa/s	100 kpts	4	-	\$1,875.00	<b>\$1,670.63</b>
DSOX2012A	100 MHz	1 GSa/s / 2 GSa/s	100 kpts	2	-	\$1,494.00	<b>\$1,331.15</b>
DSOX2014A	100 MHz	1 GSa/s / 2 GSa/s	100 kpts	4	-	\$2,215.00	<b>\$1,973.57</b>
DSOX2022A	200 MHz	1 GSa/s / 2 GSa/s	100 kpts	2	-	\$2,125.00	<b>\$1,893.38</b>
DSOX2024A	200 MHz	1 GSa/s / 2 GSa/s	100 kpts	4	-	\$2,616.00	<b>\$2,330.86</b>
MSOX2002A	70 MHz	1 GSa/s / 2 GSa/s	100 kpts	2	8 Integrated	\$1,930.00	<b>\$1,719.63</b>
MSOX2004A	70 MHz	1 GSa/s / 2 GSa/s	100 kpts	4	8 Integrated	\$2,575.00	<b>\$2,294.33</b>
MSOX2012A	100 MHz	1 GSa/s / 2 GSa/s	100 kpts	2	8 Integrated	\$2,194.00	<b>\$1,954.85</b>
MSOX2014A	100 MHz	1 GSa/s / 2 GSa/s	100 kpts	4	8 Integrated	\$2,915.00	<b>\$2,597.27</b>
MSOX2022A	200 MHz	1 GSa/s / 2 GSa/s	100 kpts	2	8 Integrated	\$2,825.00	<b>\$2,517.08</b>
MSOX2024A	200 MHz	1 GSa/s / 2 GSa/s	100 kpts	4	8 Integrated	\$3,316.00	<b>\$2,954.56</b>

## DIGITAL OSCILLOSCOPE

### GSA InfiniiVision 3000 X-Series



Scan with your smart phone.

More scope from the same budget. 8.5" WVGA display and up to 4M points memory (opt). Waveform update rates up to 1,000,000/sec. 4 instruments in 1: oscilloscope, logic timing (opt), protocol (opt) and industry's only WaveGen built-in 20MHz function generator (opt). Fully-upgradable, including bandwidth.



Model	Bandwidth	Sample Rate per ch / half ch	Memory	Ch	Digital Ch (MSO)	MSRP	GSA Price
DSOX3012A	100 MHz	2 GSa/s / 4 GSa/s	2 Mpts	2	-	\$2,810.00	<b>\$2,503.71</b>
DSOX3014A	100 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	-	\$3,380.00	<b>\$3,011.58</b>
DSOX3024A	200 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	-	\$4,060.00	<b>\$3,617.46</b>
DSOX3032A	350 MHz	2 GSa/s / 4 GSa/s	2 Mpts	2	-	\$6,381.00	<b>\$5,685.47</b>
DSOX3034A	350 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	-	\$7,677.00	<b>\$6,840.21</b>
DSOX3052A	500 MHz	2 GSa/s / 4 GSa/s	2 Mpts	2	-	\$8,000.00	<b>\$7,128.00</b>
DSOX3054A	500 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	-	\$10,440.00	<b>\$9,302.04</b>
MSOX3012A	100 MHz	2 GSa/s / 4 GSa/s	2 Mpts	2	16 Integrated	\$3,960.00	<b>\$3,528.36</b>
MSOX3014A	100 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	16 Integrated	\$4,530.00	<b>\$4,036.23</b>
MSOX3024A	200 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	16 Integrated	\$5,210.00	<b>\$4,642.11</b>
MSOX3032A	350 MHz	2 GSa/s / 4 GSa/s	2 Mpts	2	16 Integrated	\$7,531.00	<b>\$6,710.12</b>
MSOX3034A	350 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	16 Integrated	\$8,827.00	<b>\$7,864.86</b>
MSOX3052A	500 MHz	2 GSa/s / 4 GSa/s	2 Mpts	2	16 Integrated	\$9,150.00	<b>\$8,152.65</b>
MSOX3054A	500 MHz	2 GSa/s / 4 GSa/s	2 Mpts	4	16 Integrated	\$11,590.00	<b>\$10,326.69</b>

Federal contractors and government agencies are eligible for savings.

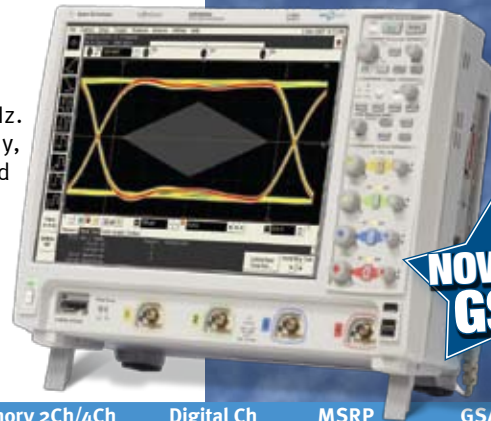
DIGITAL OSCILLOSCOPE

**GSA** Infiniium 9000 Series

The Infiniium 9000 Series offers bandwidths up to 4 GHz. Each model, equipped with a large 15" XGA LCD display, comes in a whisper-quiet package that is just 9" deep and weighs only 26 pounds (11.8 kg).

**Three instruments in one.**

- Oscilloscope: Fast sample and update rates
- Logic analyzer: Fast, deep-memory digital channels
- Protocol analyzer: World's first scope-based protocol viewer



**NOW ON  
GSA**

Model	Bandwidth	Sample Rate 2Ch/4Ch	Std Memory 2Ch/4Ch	Digital Ch	MSRP	GSA Price
DSO9064A	600 MHz	5 GSa/s / 10 GSa/s	20 Mpts/40 Mpts	-	\$17,476.00	<b>\$15,571.12</b>
DSO9104A	1 GHz	10 GSa/s/20 GSa/s	20 Mpts/40 Mpts	-	\$20,600.00	<b>\$18,354.60</b>
DSO9254A	2.5 GHz	10 GSa/s/20 GSa/s	20 Mpts/40 Mpts	-	\$26,200.00	<b>\$23,344.00</b>
DSO9404A	4 GHz	10 GSa/s/20 GSa/s	20 Mpts/40 Mpts	-	\$41,634.00	<b>\$37,095.89</b>
MSO9064A	600 MHz	5 GSa/s / 10 GSa/s	20 Mpts/40 Mpts	16	\$21,592.00	<b>\$19,238.47</b>
MSO9104A	1 GHz	10 GSa/s/20 GSa/s	20 Mpts/40 Mpts	16	\$24,600.00	<b>\$21,919.00</b>
MSO9254A	2.5 GHz	10 GSa/s/20 GSa/s	20 Mpts/40 Mpts	16	\$30,200.00	<b>\$26,908.00</b>
MSO9404A	4 GHz	10 GSa/s/20 GSa/s	20 Mpts/40 Mpts	16	\$45,750.00	<b>\$40,763.25</b>

DIGITAL SIGNAL OSCILLOSCOPE

**GSA** Infiniium 90000 X-Series/90000A Series

Infiniium 90000 X-Series are engineered for 32 GHz true analog bandwidth. These scopes offer High-frequency capability while yielding the industry's lowest noise floor and jitter measurement floor. The accompanying probing system offers browsing to 30 GHz with a full range of accessories rated to 28 GHz and the ability to upgrade bandwidth in the future. Capable of acquiring up to one billion samples, allowing capture of 25 ms record at 40 GSa/s at up to 13 GHz, and glitch detection as low as 125 ps.



Model	Bandwidth	Sample Rate 4 ch	Std Memory	Noise Floor At 100 mV/div	MRSP	GSA Price
DSO90254A	2.5 GHz	20 GSa/s	20 Mpts on 4 ch	1.27 mVrms	\$39,350.00	<b>\$35,060.85</b>
DSO90404A	4 GHz	20 GSa/s	20 Mpts on 4 ch	1.56 mVrms	\$62,604.00	<b>\$55,780.16</b>
DSO90604A	6 GHz	20 GSa/s	20 Mpts on 4 ch	1.92 mVrms	\$71,165.00	<b>\$63,408.02</b>
DSO90804A	8 GHz	40 GSa/s	20 Mpts on 4 ch	2.22 mVrms	\$88,848.00	<b>\$79,163.57</b>
DSO91204A	12 GHz	40 GSa/s	20 Mpts on 4 ch	2.80 mVrms	\$112,661.00	<b>\$100,380.95</b>
DSO91304A	13 GHz	40 GSa/s	20 Mpts on 4 ch	3.37 mVrms	\$115,065.00	<b>\$102,522.92</b>
DSOX91604A	16 GHz	80 GSa/s	2 Gpts	2.63 mVrms	\$137,550.00	<b>\$122,557.05</b>
DSOX92004A	20 GHz	80 GSa/s	2 Gpts	3.02 mVrms	\$161,000.00	<b>\$143,451.00</b>
DSOX92504A	25 GHz	80 GSa/s	2 Gpts	3.39 mVrms	\$204,970.00	<b>\$182,628.27</b>
DSOX92804A	28 GHz	80 GSa/s	2 Gpts	3.62 mVrms	\$232,780.00	<b>\$207,406.98</b>
DSOX93204A	32 GHz	80 GSa/s	2 Gpts	3.975 mVrms	\$266,000.00	<b>\$237,006.00</b>

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## DIGITAL OSCILLOSCOPE

### GSA InfiniiVision 7000B Series

These scopes offer the industry's biggest 12.1" XGA display, fast MeganZoom III technology that delivers up to 100,000 waveforms/sec update rate and responsive deep memory up to 8 M points. Customize with a wide range of hardware-based measurement applications. MSO and measurement apps are upgradable.

Model	Bandwidth	Sample Rate per ch / half ch	Memory	Ch	Digital Ch (MSO)	MSRP	GSA Price
DSO7012B	100 MHz	2 GSa/s	8 Mpts	2	-	\$5,494.00	<b>\$4,895.15</b>
DSO7014B	100 MHz	2 GSa/s	8 Mpts	4	-	\$6,666.00	<b>\$5,939.41</b>
DSO7032B	350 MHz	2 GSa/s	8 Mpts	2	-	\$7,671.00	<b>\$6,834.86</b>
DSO7034B	350 MHz	2 GSa/s	8 Mpts	4	-	\$9,609.00	<b>\$8,561.62</b>
DSO7052B	500 MHz	2 GSa/s / 4 GSa/s	8 Mpts	2	-	\$9,856.00	<b>\$8,781.70</b>
DSO7054B	500 MHz	2 GSa/s / 4 GSa/s	8 Mpts	4	-	\$12,725.00	<b>\$11,337.98</b>
DSO7104B	1 GHz	2 GSa/s / 4 GSa/s	8 Mpts	4	-	\$15,466.00	<b>\$13,780.21</b>
MSO7012B	100 MHz	2 GSa/s	8 Mpts	2	16	\$7,482.00	<b>\$6,666.46</b>
MSO7014B	100 MHz	2 GSa/s	8 Mpts	4	16	\$8,855.00	<b>\$7,889.80</b>
MSO7032B	350 MHz	2 GSa/s	8 Mpts	2	16	\$10,290.00	<b>\$9,168.39</b>
MSO7034B	350 MHz	2 GSa/s	8 Mpts	4	16	\$12,285.00	<b>\$10,945.94</b>
MSO7052B	500 MHz	2 GSa/s / 4 GSa/s	8 Mpts	2	16	\$14,042.00	<b>\$12,511.42</b>
MSO7054B	500 MHz	2 GSa/s / 4 GSa/s	8 Mpts	4	16	\$15,691.00	<b>\$13,980.68</b>
MSO7104B	1 GHz	2 GSa/s / 4 GSa/s	8 Mpts	4	16	\$19,500.00	<b>\$17,374.50</b>

## PORTABLE OSCILLOSCOPE

### GSA InfiniiVision 6000 Series

Measure analog, digital, and serial designs. Fast MeganZoom III technology delivers up to 100,000 w/s update rate and responsive deep memory up to 8 M points.

Model	Bandwidth	Sample Rate	Memory	Ch	Digital Ch (MSO)	MSRP	GSA Price
DSO6012A	100 MHz	4 GSa/s	8 Mpts	2	-	\$5,462.00	<b>\$4,866.64</b>
DSO6014A	100 MHz	4 GSa/s	8 Mpts	4	-	\$6,652.00	<b>\$5,926.93</b>
DSO6032A	300 MHz	4 GSa/s	8 Mpts	2	-	\$8,214.00	<b>\$7,318.67</b>
DSO6034A	300 MHz	4 GSa/s	8 Mpts	4	-	\$9,673.00	<b>\$8,618.64</b>
DSO6052A	500 MHz	4 GSa/s	8 Mpts	2	-	\$10,631.00	<b>\$9,472.23</b>
DSO6054A	500 MHz	4 GSa/s	8 Mpts	4	-	\$13,097.00	<b>\$11,669.43</b>
DSO6102A	1 GHz	4 GSa/s	8 Mpts	2	-	\$13,681.00	<b>\$12,189.75</b>
DSO6104A	1 GHz	4 GSa/s	8 Mpts	4	-	\$16,225.00	<b>\$14,456.47</b>
MSO6012A	100 MHz	4 GSa/s	8 Mpts	2	16 Integrated	\$7,411.00	<b>\$6,603.20</b>
MSO6014A	100 MHz	4 GSa/s	8 Mpts	4	16 Integrated	\$8,536.00	<b>\$7,605.58</b>
MSO6032A	300 MHz	4 GSa/s	8 Mpts	2	16 Integrated	\$10,156.00	<b>\$9,049.00</b>
MSO6034A	300 MHz	4 GSa/s	8 Mpts	4	16 Integrated	\$12,752.00	<b>\$11,362.03</b>
MSO6052A	500 MHz	4 GSa/s	8 Mpts	2	16 Integrated	\$15,029.00	<b>\$13,390.85</b>
MSO6054A	500 MHz	4 GSa/s	8 Mpts	4	16 Integrated	\$16,310.00	<b>\$14,532.23</b>
MSO6102A	1 GHz	4 GSa/s	8 Mpts	2	16 Integrated	\$17,575.00	<b>\$15,659.33</b>
MSO6104A	1 GHz	4 GSa/s	8 Mpts	4	16 Integrated	\$20,265.00	<b>\$18,056.13</b>

Federal contractors and government agencies are eligible for savings.

LOW-PROFILE OSCILLOSCOPE

**GSA** InfiniiVision 6000L Series

The 6000L Series oscilloscopes provide up to 1-GHz bandwidth in a space-saving 1U-high by 19-inch wide package. They have side and rear air vents so other instruments can be mounted directly above or below them. Rack mount brackets and rack rails are standard with every unit. Easy system integration and configuration to simplify system development, the 6000L Series come standard with an IVI-COM (Interchangeable Virtual Instruments) driver, and they support easy-to-use SCPI commands. Standard LAN, USB, and GPIB ports included.

**LXI** class C compliant.



Model	Bandwidth	GSa/s	Ch	MSRP	GSA Price
DSO6014L	100 MHz	2	4	\$5,553.00	<b>\$4,947.72</b>
DSO6054L	500 MHz	4	4	\$11,685.00	<b>\$10,411.34</b>
DSO6104L	1 GHz	4	4	\$14,063.00	<b>\$12,530.14</b>

PORTABLE OSCILLOSCOPE

**GSA** InfiniiVision 5000 Series

Affordable performance in a compact package. Fast MeganZoom III technology delivers up to 100,000 waveforms/second update rate and responsive deep memory up to 8 M points to capture and view infrequent events and subtle signal details. Compact form factor with built-in probe storage.

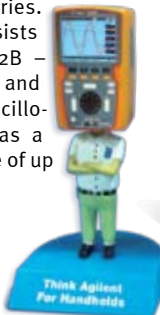


Model	Bandwidth	GSa/s	Ch	MSRP	GSA Price
DSO5012A	100 MHz	2	2	\$5,005.00	<b>\$4,459.46</b>
DSO5014A	100 MHz	2	4	\$5,940.00	<b>\$5,292.54</b>
DSO5032A	300 MHz	2	2	\$7,150.00	<b>\$6,370.65</b>
DSO5034A	300 MHz	2	4	\$8,516.00	<b>\$7,587.76</b>
DSO5052A	500 MHz	4	2	\$10,320.00	<b>\$9,195.12</b>
DSO5054A	500 MHz	4	4	\$12,076.00	<b>\$10,759.72</b>

HANDHELD OSCILLOSCOPE

**GSA** U1600 Series

The U1600 Series handheld digital oscilloscope has a 4.5-inch LCD color display, which helps to clearly distinguish waveforms between two channels. Provides a high performance troubleshooting and quality assurance tool for the installation, maintenance, service, and automotive industries. The U1600 Series consists of two models: U1602B – 20 MHz oscilloscope and U1604B – 40 MHz oscilloscope. Each model has a real-time sampling rate of up to 200 MSa/s.



Model	Description	MSRP	GSA Price
U1602B	20 MHz, 2 Ch, 200 MSa/s	\$1,358.00	<b>\$1,209.98</b>
U1604B	40 MHz, 2 Ch, 200 MSa/s	\$1,695.00	<b>\$1,510.25</b>

HANDHELD DIGITAL MULTIMETER

**GSA** U1250/U1270 Series

U1270 Series—industrial DMMs that come with improved accuracy and resolution, efficient visual and audible continuity indicator in noisy environment + high and low impedance mode to eliminate stray voltage, and connectivity and data logging function. Non-slip, ergonomic shape that fits like a glove with large knob and buttons. Built to last, IP 54 compliance to provide protection against water and dust.

The basic model, U1251B, expands your capabilities beyond typical DMM measurements to include data logging. The U1252B starts with the same foundation, and then adds a 20-MHz frequency counter and programmable square-wave generator.



Model	Description	MSRP	GSA Price
U1251B	True RMS, 50000 Count	\$382.00	<b>\$340.36</b>
U1252B	50000 Count w/ Freq Counter	\$410.00	<b>\$365.31</b>
U1271A	30,000 Counts AC True RMS	\$340.00	<b>\$302.94</b>
U1272A	30,000 Counts AC/DC True RMS	\$370.00	<b>\$329.67</b>

# Call Toll Free 888-665-2765

## MODULAR LOGIC ANALYSIS SYSTEMS

### GSA 16900 Series

The Agilent 16900 Series modular logic analysis systems provide the highest performance and best long-term value. You get the flexibility to configure a system for your specific needs. Purchase what you need now then upgrade as your needs evolve. Select from a wide range of real-time analysis tools for buses, memories, protocols, Xilinx and Altera FPGAs, and processors to speed up debug of your specific application.

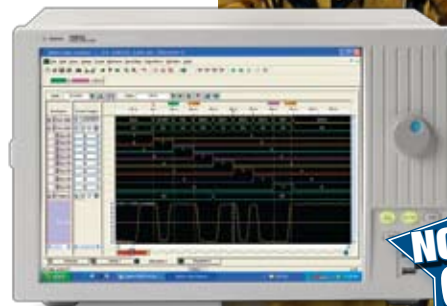


Model	Module Slots	Display Size	MSRP	GSA Price
16901A	2-slot Logic Analyzer Mainframe	15" Color Touch Display	\$16,186.00	<b>\$14,421.73</b>
16902B	6-slot Logic Analyzer Mainframe	15" Color Touch Display	\$20,920.00	<b>\$18,639.72</b>
Model	Timing/State Logic Analyzer Modules	Memory Depth	MSRP	GSA Price
16910A	102-ch, 4 GHz Timing, 250 MHz State (1 M, 4 M, 16 M, 32 M Options)	256 K Standard	\$15,935.00	<b>\$14,198.08</b>
16911A	68-ch, 4 GHz Timing, 250 MHz State (1 M, 4 M, 16 M, 32 M Options)	256 K Standard	\$11,992.00	<b>\$10,684.87</b>
16950B	68-ch, 4 GHz Timing, 667 MHz State (4M, 16 M, 32 M, 64 M Options)	1 M Standard	\$29,721.00	<b>\$26,481.41</b>
16951B	68-ch, 4 GHz Timing, 667 MHz State	256 M	\$82,029.00	<b>\$73,087.84</b>
16962A	68-ch, 2 / 4 / 8 GHz Timing, 2 GHz State (16 M, 32 M, 64 M, 200 M Options)	4 M Standard	\$41,752.00	<b>\$37,201.00</b>

## PORTABLE LOGIC ANALYZERS

### GSA 16800 Series

Agilent 16800 Series portable logic analyzers deliver an exclusive combination of high-performance logic analysis, pattern generation, application software and innovative probing for system-level debugging of digital designs. State speed (250 MHz or 450 MHz) and memory depth (1M, 4 M, 16 M, or 32 M) are upgradeable at time of purchase or later as your needs evolve. Select from a wide range of real-time analysis tools for buses, memories, protocols, Xilinx and Altera FPGAs, and processors to speed up debug of your specific application.



Model	Logic Analyzer Channels	Pattern Generator Channels	MSRP	GSA Price
16801A	34	-	\$11,037.00	<b>\$9,833.97</b>
16802A	68	-	\$14,111.00	<b>\$12,572.90</b>
16803A	102	-	\$16,787.00	<b>\$14,957.22</b>
16804A	136	-	\$19,779.00	<b>\$17,623.09</b>
16806A	204	-	\$32,416.00	<b>\$28,882.66</b>
16821A	34	48	\$23,094.00	<b>\$20,576.75</b>
16822A	68	48	\$25,725.00	<b>\$22,920.98</b>
16823A	102	48	\$28,482.00	<b>\$25,377.46</b>

Federal contractors and government agencies are eligible for savings.

HIGH-SPEED cPCI DIGITIZER

**GSA** Acqiris U106xA Series

The Acqiris product line provides a range of 200 MS/s, 500 MS/s, 1 GS/s, 2 GS/s, 4 GS/s and 8 GS/s high-speed digitizer cards with 1, 2 and 4 input channels, 8, 10 and 12 bit resolution, wide bandwidth and large acquisition memory. Typical applications using these products include T&M ATE, defense RADAR, commercial and industrial T&M ATE, aerospace defense T&M, communications and EW/SIGINT applications.



Model	Description	MSRP	GSA Price
U1066A-002	Dual-channel, 100 MHz, 200 MS/s, Acqiris DC438	\$8,524.00	<b>\$7,594.89</b>
U1063A-002	Quad-channel, 250 MHz, 1 GS/s, 128 kpoints, DC270	\$13,671.00	<b>\$12,180.86</b>
U1064A-004	Quad-channel, 1 GHz, 1-4 GS/s, 128-512 kpoints, DC271	\$16,406.00	<b>\$14,617.75</b>

AUDIO ANALYZER

**GSA** U8903A



The U8903A audio analyzer combines the functionality of a distortion meter, SINAD meter, frequency counter, AC voltmeter, DC voltmeter and FFT analyzer with a low-distortion audio source. Measure and quantify audio performance in applications such as wireless audio, analog components and ICs, and consumer audio. On the bench or in a test system, its accuracy and versatility will help you make an audible difference in your end product. The U8903A is the next-generation replacement for the widely used HP 8903B.

LXI class C certified.



Model	Description	MSRP	GSA Price
U8903A	2 Ch Audio Analyzer	\$12,023.00	<b>\$10,712.49</b>

18-SLOT PXIe CHASSIS & MODULES

**GSA** PXI Modular Products

★ ALL HYBRID  
★ GEN 2 SPEEDS  
★ OPEN SYSTEM

The M9018A chassis with 16 PXIe hybrid slots allows the system designer to mix and match the number and location of PXIe and hybrid PXIe-compatible modules. 4U high, 18 PXIe 3U slots; 1 system, 1 timing, 16 hybrid. Maximum data bandwidth—module-to-module: 4 GB/s System-to backplane: 8 GB/s. Configurable system slot interface; 1 x 8, 2 x 8, 1 x 4, or 4 x 4. 1100 W power supply, 140 W system power per slot, PXIe 30 W.



Model	Description	MSRP	GSA Price
M9018A	PXIe Chassis: 18 slot, 3U, 8 Gb/s	\$8,400.00	<b>\$7,484.40</b>
M9392A	PXI Vector Signal Analyzer, 50 MHz - 26.5 GHz	<b>Call For More Information</b>	
M9202A	PXIe IF Digitizer, 12 bit, 2 GS/s	\$7,687.00	<b>\$6,849.12</b>
- M9202A-DDC	Frequency range, 2 GS/s	\$5,145.00	<b>\$4,584.20</b>
- M9202A-Fo2	PXI Downconverter: 50 MHz to 2.9 GHz	\$7,207.00	<b>\$6,421.44</b>
M9210A	PXI High Speed Digitizing Scope, 10-bit, 2 - 4 GS/s	\$12,501.00	<b>\$11,138.39</b>
M9330A	AWG, 15 bit, 1.25 GS/s	\$39,901.00	<b>\$35,551.79</b>
M9331A	AWG, 10 bit, 1.25 GS/s	\$27,800.00	<b>\$24,769.80</b>
M9146A - M9153A	RF Family of Switches, DC - 3 GHz	<b>Call For More Information</b>	
M9155C - M9157C	uW Family of Switches, DC - 26.5 GHz	<b>Call For More Information</b>	

**GSA** Contract GS24F0066M Small business credit applies. Free shipping FOB U.S. destinations.

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## DATA ACQUISITION & SWITCH UNITS

### GSA 34970A/34972A

The Agilent 34972A Data Acquisition Switch Unit consists of a 3-slot mainframe with a built-in 6.5 digit DMM and 8 different switch & control modules. Measures 11 different input signals including temperature with thermocouples, RTDs and thermistors; DC/AC volts or current; 2- or 4-wire resistance; frequency and period. This product features built-in LAN and USB interfaces so you can easily connect to a PC or laptop.

**34972A CAN ACCEPT ANY OF THE 34970A PLUG-IN MODULES**



Mainframe	Model	Description	MSRP	GSA Price			
	34972A	LXI Data Acquisition Switch Unit	\$1,845.00	\$1,643.90			
	34970A	Data Acquisition Switch Unit	\$1,597.00	\$1,422.93			
	34980A	Multifunction Switch/Measure Unit	\$2,591.00	\$2,308.58			
Multiplexer	Module	Description (*Module for 34970A or 34972A only)	Max Volts	Max Current	Max Freq	MSRP	GSA Price
	34901A	*20-Channel Armature Multiplexer (for 34970A/34972A)	±300V	1A	10 MHz	\$481.00	\$428.57
	34902A	*16-Channel Reed Multiplexer (for 34970A/34972A)	±300V	.05A	10 MHz	\$585.00	\$521.24
	34905A	*Dual 4-Channel, 50 OHM RF Multiplexer (for 34970A/34972A)	±42V	.7A	10 MHz	\$758.00	\$675.38
	34906A	*Dual 4-Channel, 75 OHM RF Multiplexer (for 34970A/34972A)	±42V	.7A	10 MHz	\$758.00	\$675.38
	34908A	*40-Channel Single-Ended Multiplexer (for 34970A/34972A)	±300V	1A	10 MHz	\$495.00	\$441.05
	34921A	40-Channel Armature Multiplexer w/Low Thermal Offset	±300V	1A	45 MHz	\$876.00	\$780.52
	34922A	70-Channel Armature Multiplexer	±300V	1A	25 MHz	\$1,348.00	\$1,201.07
	34923A	40/80-Channel Reed Multiplexer	±150V	0.5A	45 MHz	\$1,035.00	\$922.18
	34924A	70-Channel Reed Multiplexer	±150V	0.5A	25 MHz	\$1,556.00	\$1,386.40
	34925A	40/80-Channel Optically Isolated FET Multiplexer	±80V	0.05A	1 MHz	\$1,244.00	\$1,108.40
Matrix	34904A	*4 x 8, 2-wire, Matrix Switch Module (for 34970A/34972A)	±300V	1A	10 MHz	\$519.00	\$462.43
	34931A	Dual 4x8 Armature Matrix	±300V	1A	30 MHz	\$1,023.00	\$911.49
	34932A	Dual 4x16 Armature Matrix	±300V	1A	30 MHz	\$1,633.00	\$1,455.00
	34933A	Dual/Quad 4x8 Reed Matrix	±150V	0.5A	30 MHz	\$1,128.00	\$1,005.05
	34934A	Quad 4x32 Reed Matrix	±100V	0.5A	20MHz	\$5,262.00	Open Mkt
General-purpose	34903A	*20-Channel Actuator/GP Switch Module (for 34970A/34972A)	±300V	1A	10 MHz	\$414.00	\$368.87
	34937A	28-Channel Form C and 4-Channel Form A	300V	1A	10 MHz	\$986.00	\$878.53
			250VAC	5A			
	34938A	20-Channel 5-Amp Form A	250VAC	5A	1 MHz	\$1,196.00	\$1,065.64
	34939A	64-channels Form A	+/-100V	1A/2A	10MHz	\$1,233.00	Open Mkt
RF & Microwave	Module	Description	Max Freq	Insertion Loss	Isolation	MSRP	GSA Price
	34941A	Quad 1x4 50 Ohm 3 GHz RF Multiplexer	3 GHz	0.6 dB	> 58 dB	\$1,660.00	\$1,479.06
	34942A	Quad 1x4 75 Ohm 1.5 GHz RF Multiplexer	1.5 GHz	0.6 dB	> 60 dB	\$1,660.00	\$1,479.06
	34946A	Dual 1x2 SPDT Terminated Microwave Switch	4 GHz	< 0.42 dB	> 85 dB	\$818.00	\$728.84
			20 GHz	< 0.69 dB	> 67 dB		
	34947A	Triple 1x2 SPDT Unterminated Microwave Switch	4 GHz	< 0.42 dB	> 85 dB	\$842.00	\$750.22
			20 GHz	< 0.69 dB	> 67 dB		
System Control	Module	Description	MSRP	GSA Price			
	34950A	64-Bit Digital I/O with Memory and Counter	\$1,244.00	\$1,108.40			
	34951A	4-Channel Isolated D/A Converter with Waveform Memory	\$1,036.00	\$923.08			
	34952A	Multifunction Module with 32-bit DIO, 2-Channel D/A and Totalizer	\$744.00	\$662.89			
	34959A	Breadboard Module	\$519.00	\$462.43			
	34907A	*Multifunction Module (for 34970A/34972A)	\$388.00	\$345.71			

Federal contractors and government agencies are eligible for savings.

**GSA** Agilent Technologies



**Attenuator/Switch Driver**

Provide remote or front panel drive control for programmable attenuators and electromechanical or solid state switches.



Model	Voltage	Switch Control	MSRP	GSA Price
11713B	24V	2 programmable attenuators 2 SPDT or up to 10 SPDT	\$2,778.00	<b>\$2,475.21</b>
11713C	5V, 15V, 24V	4 programmable attenuators 4 SPDT or up to 20 SPDT	\$3,749.00	<b>\$3,340.36</b>

**RF Probes**

Convenient biasing from Agilent's RF and microwave instruments probe power port or bench top power supply for user flexibility

Model	Freq Range	Input Impedance	Max CW	MSRP	GSA Price
U1818A	100 kHz-7 GHz	Single: 25 KΩ	16 dBm	\$5,511.00	<b>\$4,959.90</b>
U1818B	100 kHz-12 GHz	Diff: 50 KΩ	16 dBm	\$9,519.00	<b>\$8,567.10</b>

**Programmable Step Attenuators**



Model	Frequency	Atten/Step	Connector	MSRP	GSA Price
8496H	18 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,969.00	<b>\$1,754.38</b>
8495K	26.5 GHz	70/10 dB	3.5 mm	\$1,868.00	<b>\$1,664.39</b>
84904L	40 GHz	11/1 dB	2.4 mm, 2.92 mm	\$3,855.00	<b>\$3,434.81</b>
8496G	4 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,349.00	<b>\$1,201.96</b>
84908M	50 GHz	65/5 dB	2.4 mm, 2.92 mm	\$4,456.00	<b>\$3,970.29</b>

**Manual Step Attenuators**



Model	Frequency	Atten/Step	Connector	MSRP	GSA Price
8495A	4 GHz	70/10 dB	TType-N, SMA, APC-7	\$866.00	<b>\$771.60</b>
8495B	18 GHz	70/10 dB	Type-N, SMA, APC-7	\$1,100.00	<b>\$980.10</b>
8495D	26.5 GHz	70/10 dB	3.5 mm	\$1,432.00	<b>\$1,275.92</b>
8496A	4 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,011.00	<b>\$900.80</b>
8496B	18 GHz	110/10 dB	Type-N, SMA, APC-7	\$1,478.00	<b>\$1,316.90</b>

**Amplifiers**



Model	Freq Range	Type	Gain	MSRP	GSA Price
83006A	10 MHz-26.5 GHz	System	20 dB	\$5,815.00	<b>\$5,181.17</b>
83020A	2 GHz-26.5 GHz	System	30 dB	\$26,608.00	<b>\$23,707.72</b>
83050A	2 GHz-50 GHz	System	21 dB	\$30,707.00	<b>\$27,359.94</b>
87405C	100 MHz-18 GHz	Preamp	25 dB	\$2,566.00	<b>\$2,286.29</b>

**Coaxial Directional Coupler**



Model	Min Freq	Max Freq	Connector	MSRP	GSA Price
87300B	1 GHz	20 GHz	SMA(f)	\$860.00	<b>\$766.25</b>
87300C	1 GHz	26.5 GHz	3.5 mm(f)	\$1,432.00	<b>\$1,275.92</b>
87300D	6 GHz	26.5 GHz	3.5 mm(f)	\$1,201.00	<b>\$1,070.09</b>
87301B	10 GHz	46 GHz	2.92 mm(f)	\$1,892.00	<b>\$1,685.77</b>
87301D	1 GHz	40 GHz	2.4 mm(f), 2.92 mm	\$2,078.00	<b>\$1,851.50</b>
87301E	2 GHz	50 GHz	2.4 mm(f)	\$11,989.00	<b>\$1,772.20</b>

**Low Barrier Schottky Diode & Coaxial Detectors**



Model	Frequency	Connector1	Connector2	MSRP	GSA Price
8472B	18 GHz	SMA(m)	BNC(f)	\$704.00	<b>\$627.26</b>
8473B	18 GHz	3.5 mm(m)	BNC(f)	\$658.00	<b>\$586.27</b>
8470B	18 GHz	APC-7	BNC(f)	\$863.00	<b>\$768.93</b>
8473C	26.5 GHz	3.5 mm(m)	BNC(f)	\$698.00	<b>\$621.91</b>
33330C	26.5 GHz	3.5 mm(m)	SMC(m)	\$680.00	<b>\$605.88</b>
33330B	18 GHz	3.5 mm(m)	SMC(m)	\$646.00	<b>\$575.52</b>

**SPDT Coaxial Switch**



Model	Max Freq	Peak Input	Isolation	MSRP	GSA Price
8761A	18 GHz	5kW	50 dB	\$962.00	<b>\$857.15</b>
8761B	18 GHz	5kW	50 dB	\$962.00	<b>\$857.15</b>
8762A	4 GHz	100W	100 dB	\$676.00	<b>\$602.31</b>
8762B	18 GHz	100W	100 dB	\$765.00	<b>\$681.61</b>
8762C	26.5 GHz	100W	90 dB	\$848.00	<b>\$755.57</b>
8765D	40 GHz	100W	90 dB	\$1,074.00	<b>\$956.94</b>

**Multiport Switches**



Model	Freq Range	Type	Op Life	MSRP	GSA Price
L7104C	DC-26.5 GHz	Terminated/SP4T	2,000,000	\$1,308.00	<b>\$1,165.43</b>
L7106B	DC-20 GHz	Terminated/SP6T	2,000,000	\$1,189.00	<b>\$1,059.41</b>
87104A	DC-4 GHz	Terminated/SP4T	5,000,000	\$1,641.00	<b>\$1,462.13</b>
87106B	DC-20 GHz	Terminated/SP6T	5,000,000	\$2,227.00	<b>\$1,984.26</b>
87106C	DC-26.5 GHz	Terminated/SP4T	5,000,000	\$2,331	<b>\$2,097.90</b>
87106D	DC-40 GHz	Terminated/SP6T	5,000,000	\$2,624	<b>\$2,361.60</b>

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## MODULAR DC POWER ANALYZER

### GSA N6705B

Unrivaled productivity gains for sourcing and measuring DC voltage and current into the DUT by integrating up to 4 advanced power supplies with DMM, Scope, Arb, and Datalogger features. It eliminates the need to gather multiple pieces of equipment and create complex test setups including transducers to measure current into your DUT. The DC Power Analyzer also eliminates the need to develop and debug programs to control a collection of instruments and take useful measurements because all functions and measurements are available at the front panel.



Model	Description	MSRP	GSA Price
N6705B	4-slot Mainframe Up To 600W	\$6,908.00	<b>\$6,155.03</b>
N6731B	DCP Module 5V, 10A, 50W	\$517.00	<b>\$460.64</b>
N6742B	DCP Module 8V, 12.5A, 100W	\$953.00	<b>\$849.13</b>
N6751A	High-Perf. Autoranging 50W	\$1,172.00	<b>\$1,044.25</b>
N6761A	Precision DCP Module 50W	\$2,300.00	<b>\$2,049.29</b>

## HYBRID MULTIMETER & DC POWER SUPPLY

### GSA U3606A

Agilent's convenient hybrid combines a 5-1/2 digit DMM and 30-W power supply that operates simultaneously and independently, providing you with efficient, affordable testing while saving space on the bench or in a rack. Measurements include DC and AC voltage and current, 2-wire and 4-wire milliohm resistance, frequency, capacitance, continuity and diode test. Math functions include Null, dBm, dB, Hold and Min/Max/Avg. Power supply functions include auto scan and ramp for multi-level DC bias testing, and up to 4.8 kHz square-wave output for digital circuit troubleshooting. The U3606A integrates easily into existing systems with standard USB-TMC 488.2 and GBIP connectivity, and SCPI programmability.



Model	Description	MSRP	GSA Price
U3606A	5-1/2 Digit DMM, 30-W	\$1,201.00	<b>\$1,070.09</b>

## DC POWER SUPPLY

### GSA N5700 Series

The Agilent N5700 series programmable DC power supplies include GPIB, LAN, and USB 2.0 interface standard in a compact (1U) package.

LXI class C compliant.

**MORE VOLT/AMP COMBOS AVAILABLE**



750 Watt	Volts	Amps	MSRP	GSA Price
N5744A	20	38	\$2,497.00	<b>\$2,224.83</b>
N5745A	30	25	\$2,497.00	<b>\$2,224.83</b>
N5746A	40	19	\$2,497.00	<b>\$2,224.83</b>
N5747A	60	12.5	\$2,497.00	<b>\$2,224.83</b>
N5748A	80	9.5	\$2,497.00	<b>\$2,224.83</b>
1500 Watt				
N5764A	20	76	\$2,959.00	<b>\$2,636.47</b>
N5765A	30	50	\$2,959.00	<b>\$2,636.47</b>
N5766A	40	38	\$2,959.00	<b>\$2,636.47</b>
N5767A	60	25	\$2,959.00	<b>\$2,636.47</b>
N5768A	80	19	\$2,959.00	<b>\$2,636.47</b>

## SYSTEM DC POWER SUPPLIES

### GSA N8700 Series

The N8700 series system DC power supplies give you just the right performance — at just the right price — in a compact (2 U) package. This family of affordable 3300 W and 5000 W single-output programmable DC power supplies consists of 21 models for simple DC power applications. They provide stable output power, built-in voltage and current measurement, and output voltage and current from 8 V to 600 V and 5.5 A to 400 A.



Model	Watts	Volts	Amps	List	GSA Price
N8731A	3200	8	400	\$4,699.00	<b>\$4,186.81</b>
N8732A	3300	10	330	\$4,699.00	<b>\$4,186.81</b>
N8733A	3300	15	220	\$4,699.00	<b>\$4,186.81</b>
N8734A	3300	20	165	\$4,699.00	<b>\$4,186.81</b>
N8735A	3300	30	110	\$4,699.00	<b>\$4,186.81</b>
N8736A	3400	40	85	\$4,699.00	<b>\$4,186.81</b>

Federal contractors and government agencies save on Agilent's GSA models at [www.agilent.gsamart.com](http://www.agilent.gsamart.com)



## Optimized For Performance & Speed

The MXG Microwave Analog  
Signal Generators Deliver  
The Performance You Need



### Signal Characteristics

- 100 kHz to 20, 31.8 or 40 GHz
- +18 dBm at 20 GHz output power
- $\leq 900 \mu\text{s}$  frequency switching speeds
- $\leq -98 \text{ dBc/Hz}$  typical phase noise at 20 kHz offset

### Modulation and Sweep

- AM, FM, M, and pulse modulation
- $< 10 \text{ ns}$  pulse rise/fall time and 20 ns pulse widths
- Digital and step sweep

**GSA Models  
Start at  
\$6,041**

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