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Agilent N9310A RF Signal Generator

All the capability and reliability of an Agilent instrument you need – at a price you’ve always wanted



Reliable Performance. Essential Test Capability

The N9310A RF signal generator covers a frequency range from 9 kHz to 3 GHz. With its low price, reliable performance, and straightforward functionality, it's well-suited for start-up R&D, service maintenance, manufacturing, and education.

There are some applications where basic functionality of a signal generator is all you need—or want, such as the RX level test of a receiver, components characterization, and EMC test of a product. For those instances, the N9310A RF signal generator is ideal. You can count on the N9310A signal generator to provide the reliable performance you need that's just right for general purpose testing.

For those that are price sensitive, yet need a few additional functions, the N9310A offers:

- Optional OCXO frequency reference (Option N9310A-PFR) improves the frequency stability. Provides up to $\pm 1 \times 10^{-7}$ annual aging rate and $\pm 5 \times 10^{-8}$ temperature stability (5 to 50 °C)
- Additional analog IQ input capability (Option N9310A-001)
- Optional 30 dB power attenuator (Option N9310A-1PA)

Key specifications	N9310A RF signal generator
Frequency range	9 kHz to 3 GHz (RF); 20 Hz to 80 kHz (LF)
Switching speed	< 10 ms
Frequency reference	$< \pm 1 \times 10^{-6}$, $< \pm 1 \times 10^{-7}$ with Option PFR installed
Output power	-127 to +13 dBm; (maximum +20 dBm settable)
Level uncertainty	< ± 1 dB
Reverse power protection	+36 dBm (RF power); 30 V (DC voltage)
Phase noise	< -95 dBc/Hz
Residual FM	< 20 Hz rms

You also count on the N9310A signal generator to provide the functionality you need that's just essential for general purpose testing.

- Step or point swept CW output (maximum 1,001 points)
- LF (low frequency) output
- Analog modulation output: AM, FM, Φ M, and pulse modulation
- Internal modulation source able to:
 - Provide 20 Hz to 80 kHz sine wave for N9310A
 - Output via the LF output port on the N9310A's front panel



Figure 1. N9310A front view (default configuration, without handle and bumper)

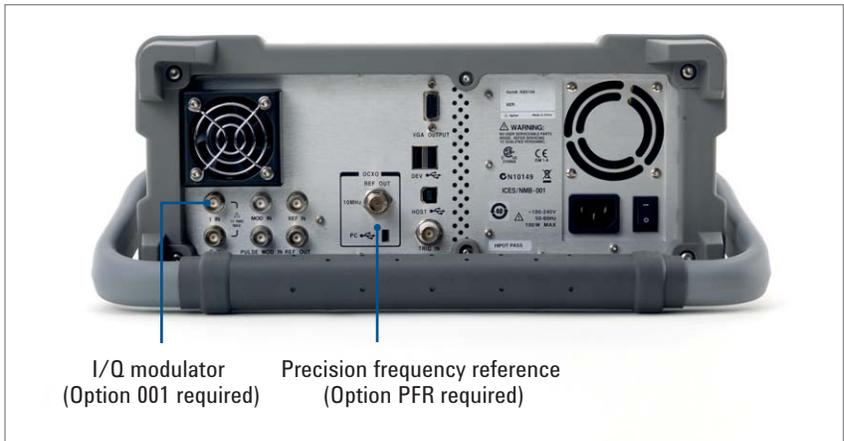


Figure 2. N9310A back view



Easy to Learn. Easy to Operate.

Just one look at the N9310A and you'll see why this RF signal generator is so easy to learn and operate, allowing productivity to ramp up quickly.

- The large, high-resolution, full-color graphical user interface (GUI) makes it easy to check set up of output values and parameters
- Interface options in 11 languages adds to its user-friendliness
- Hard keys on the front panel and soft keys on the unit's screen, provide fast, direct access to frequently-used features



Solid Quality. Superior Reliability.

When you're conducting R&D, testing in manufacturing, performing installation or maintenance, or teaching in a lab, you need to know that you can rely on your equipment. Agilent has built its reputation on producing high-quality products that perform to their stated specifications. That means you can depend on the N9310A day in and day out. With optional calibration and extended warranty options, there's the added assurance of long-term accuracy.

With Agilent, quality and reliability go beyond the product—it extends to responsive customer support and service too. Buying test equipment from Agilent's basic RF series gives you access to top-line service and support when you need it.



Competitive Price Plus Value.

Budgets are a fact of life. That's why Agilent created the economically-priced N9310A—to give you an affordable solution and one that delivers value for your purchase.

- N9310A provides the capability you need to assure quality while minimizing the cost of test
- For applications like automated testing and RF teaching labs, the N9310A pricing means you can buy more units than alternative products and stay within your budget
- Feature-rich, the standard N9310A comes equipped with the functionality you need, including analog modulation—all for one affordable price



The Right Choice for Your Application

The N9310A is a general purpose RF signal generator, covering a frequency range from 9 kHz to 3 GHz. With a low price, just enough performance, and multiple built-in functions, it's well-suited for R&D, manufacturing, education and service maintenance.

Development

Even the simplest of today's electronic products with RF content demand adequate and proper design verification. While you may occasionally need a full-function and high-performance signal generator, most of the time you just need a simple continuous wave (CW) source. For this application, the Agilent N9310A RF signal generator is ideal.



Whether you're developing new products, creating product enhancements, or creating a redesign N9310A's small footprint saves room on space-limited R&D benches and other areas where standalone use is desirable.

Manufacturing

Trimming your manufacturing costs without compromising product quality is essential. While RF signal generators come with a variety of functions and price levels, you need the solution that provides just the functionality you need at the lowest cost possible. That's the N9310A RF signal generator.



Whether you're testing on a line, or using an automated test configuration with rack mounted equipment, the N9310A also has the flexibility need. For bench line testing, the bumper handle elevates the unit to comfortable viewing angle, or stack the N9310A with other test equipment on automated test lines. The compact N9310A needs just 3U and the optional rack mount kit makes it easy to incorporate into an EIA standard 19-inch (482.6 mm) rack or cabinet.

Service Maintenance

Service and maintenance isn't exempt from the pressure to reduce costs. The low-cost N9310A is packed with capabilities you need to perform general purpose installation and maintenance, or service and repair. The large screen makes it easy to view from a distance. User friendly GUI and hard and soft keys help users quickly set up signal output parameters in the field. Light weight and portable this signal generator has an optional bumper handle and hard transit case to add to its durability.

RF education

Every RF teaching lab needs RF signal generators. The N9310A provides the capabilities students need and is a reliable general-purpose local oscillator or signal source. As one of the lowest priced signal generators from Agilent Technologies, the N9310A makes it practical to purchase multiple units, allowing your students benefit from more hands-on RF circuit experiments and exercises. You'll also appreciate its straightforward operation, external modulation source, and the ability to inject external baseband signals to the N9310A. From the class room to performing basic research, the N9310A delivers.

Combine the N9310A RF signal generator, N9320B RF spectrum analyzer, and the RF training kit to establish your modern RF teaching lab. You can easily address the hands-on labs needs for your students, covering the classic transceiver characterization, and individual RF component tests, and even test automation practice.

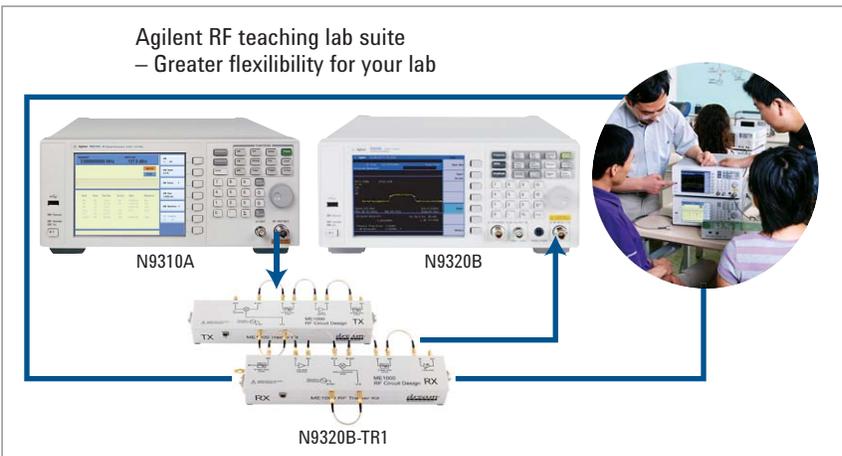


Figure 3. Agilent RF teaching lab solution

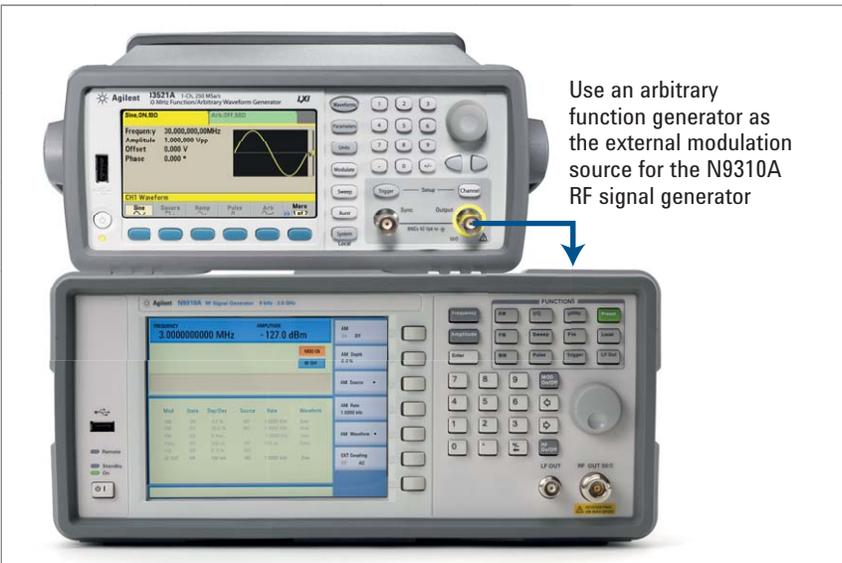


Figure 4. The combined use of Agilent 33500 series arbitrary waveform generator and N9310A RF signal generator

The Choice You Want

Value, functionality, performance, and Agilent support. The N9310A RF signal generator has most of things you need and with Agilent, you can be confident that you are making the right choice for the right price. Contact your nearest Agilent partner (www.agilent.com/find/channelpartners) and order your Agilent solution today.

Additional Information

- N9310A RF Signal Generator, Data Sheet,
literature number 5990-8116EN
<http://cp.literature.agilent.com/litweb/pdf/5990-8116EN.pdf>
- N9310A RF Signal Generator, Configuration Guide,
literature number 5990-8117EN
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Revised: December 14, 2011

Product specifications and descriptions in this document subject to change without notice.

© Agilent Technologies, Inc. 2011
Published in USA, December 23, 2011
5990-8115EN



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