

# Keysight N9310A RF Signal Generator

Built to Perform, Priced to Compete



1. USB interface in front and back panels for easy operation and data storage
2. 6.5" color display and multi-language UI
3. Enlarged control keys
4. Preset state key
5. Knob for fine control
6. RF out (Type-N female)
7. LF out BNC
8. Compact design (H x W x D): 132.5 x 320 x 400 mm (5.2 x 12.6 x 15.7 in)
9. Option 1HB provides additional protection to the instrument

## Keysight N9310A low-cost compact signal generator

Features	N9310A RF signal generator	Benefit/Value
Performance	Frequency range: 9 kHz to 3 GHz Level: -127 to +13 dBm, +20 dBm settable Switch time: < 10 mSec Modulations: AM, FM, ØM, pulse IQ modulator: 80 MHz BW	Offers analog modulation and an IQ modulator with professional grade performance at an affordable price
Display	6.5 inch TFT color screen with 640 x 480 resolution	A clear, bright color screen with associated, easy-to-read soft keys helps users quickly set up signal output parameters
User interface	Multi-language (up to 11 regions)	Users all over the world can easily operate this instrument in their native language for improved productivity
Connectivity	USB ports	Easily save data to USB memory stick Fast and convenient firmware updates Fast remote control with a PC
Size and weight	Small and light weight	Convenient for field use Saves space on a crowded bench

Model	Description
N9310A	RF signal generator
Options	Description
Option 001	Analog I/Q input capability requires external stimulus
Option 1HB	Handle and bumpers (must order with base model)
Option 1CM	Rack mount kit
Option 1TC	Hard transit case
Option PFR	Precision frequency reference

## Professional performance

Key specifications	Description
Frequency range	9 kHz to 3 GHz
LF output	20 Hz to 80 kHz
Level	-127 dBm to +13 dBm (settable to +20 dBm)
Sweep	Frequency/amplitude/LF/list
Phase noise	< -95 dBc/Hz
Switching time	< 10 mSec
Modulations	AM, FM, ØM, pulse modulation
IQ modulator	80 MHz BW
Connectivity	USB interface for USB memory stick
Display	6.5" TFT color screen
Language	Multi-language user interface

Application	Test case	Performance requirements	Keysight N9310B performance
Receiver test	Sensitivity	Modulated signal, around -110 dBm	AM/FM/ØM, -127 to +13 dBm
	RSSI/RX level	CW, about 1 dB amplitude accuracy	1 dB amplitude accuracy
	Blocking, spurious response	CW/modulated signal, higher sensitivity level	Min. -127 dBm
Amplifier test	IP <sub>3</sub> , 1 dB compression	CW signal, with high output level	+13 dBm, +20 dBm settable for most frequencies
Mixer/filter test	Inter-mod, insertion loss, frequency response	CW signal, with high output level	+13 dBm, +20 dBm settable for most frequencies
EMC test	Spurious elimination	CW	9 kHz to 3 GHz CW output
Wireless products	Receiver tests	Same as receiver test above	Same as above

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## Keysight low-cost RF solution – Built to perform, priced to compete



N9310A RF signal generator

N9320B RF spectrum analyzer

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