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): $132.5 \times 320 \times 400 \text{ mm}$ (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	Offers analog modulation and an IQ modulator with professional grade performance at an affordable price	
	Level: -127 to +13 dBm, +20 dBm settable		
	Switch time: < 10 mSec		
	Modulations: AM, FM, ØM, pulse		
	IQ modulator: 80 MHz BW		
Display	6.5 inch TFT color screen with 640 x 480 resolution	A clear, bright color screen with associ- ated, 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	Small and light weight	Convenient for field use	
weight		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 ₃ , 1 dB compression	CW signal, with high output level	+13 dBm, +20 dBm settable formost frequencies
Mixer/filter test	Inter-mod, insertion loss, frequency response	CW signal, with high output level	+13 dBm, +20 dBm settable formost 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

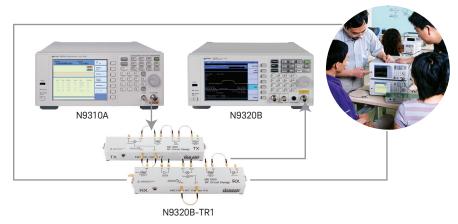
Keysight low-cost RF solution – Built to perform, priced to compete



N9310A RF signal generator

N9320B RF spectrum analyzer

Keysight RF teaching lab suite - Greater flexibility for your lab



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