Keysight N5166B CXG RFVector Signal Generator

Master the essential

IoT design and verification (DVT) engineers need to keep up with today's expanding consumer electronic market. This is same for many general-purpose radio device designers. Engineers, like yourself, need an economic and versatile test and measurement system that can handle the diverse consumer electronic devices and give the performance required to make receiver tests across several different wireless standards.

Keysight has developed N5166B CXG X-Series RF vector signal generator, that is a low-cost, multi-functional signal generation tool, used in general-purpose and educational applications.



Option	Description
503	CXG RF vector signal generator, 9 kHz – 3 GHz
506	CXG RF vector signal generator, 9 kHz – 6 GHz
653	ARB baseband generator, 60 MHz, 32 MSa
655	Upgrade BBG from 60 to 120 MHz, 32 MSa
022	Upgrade BBG memory from 32 to 512 MSa
221,229	Signal Studio Waveform playback license, 5-pack
250,259	Signal Studio Waveform playback license, 50-pack
More information: Refer to N5166B CXG Configuration Guide	

Learn more at: www.keysight.com

Key specifications 9 kHz – 3/6 GHz Frequency range -110 to +18 dBm Specified output power range Switching speed 5 ms Phase noise (1 GHz, 20 kHz offset) -119 dBc/Hz typical Amplitude accuracy ±0.6 dB Internal baseband RF BW 60 or 120 MHz External IQ inputs RF BW 200 MHz Baseband amplitude flatness ±0.2 dB, measured with channel correction Baseband memory 32 MSa (standard), 512 MSa optional External IQ RF BW 200 MHz

Key features	
Continuous wave output, in Sine or Square	
Step and list swept output	
AM, FM, ΦM, and pulse modulations	
Internal baseband generator up to 120 MHz or external IQ input	
Multi-function generator (LF) Up to 7 utilities, maximum 10 MHz	
Signal Studio waveform playback via 5-pack or 50-pack license on CXG	



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CXG Front Panel Overview



Transfer instrument files, licenses, and waveforms, or connect up to four Keysight USB power sensors via USB 2.0 (Type-A port).

External I/Q inputs, 200 MHz RF BW

to 50 W reverse power protection.

Top 3 reasons: Why buy N5166B CXG

Simplified Signal Proven Reliability Generation Playback offline Signal Studio waveforms SCPI commands Ensure designs meet latest standards

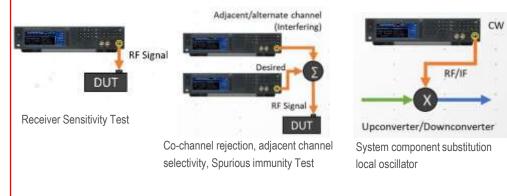
Low-Cost of ownership

- Calibration internval and warranty period: 3-year
 - Target MTBF 116 khours

Measurement applications

CXG is used in Component test. System component substitution, and Receiver test. generating varieties of signals:

- Wanted signal (desired CW or modulation signals) •
- Blocking signal
- Modulated interference signal



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Also Need a Signal Analysis Solution?

Consistent with

compatible with

frameworks

many signal sources

E/MXG

Try Keysight N9000B CXA signal analyzer as a companion to your N5166B CXG signal generator!

N9000B CXA Signal Analyzer, 9 kHz - 3/7.5/13.6/26.5 GHz

