

Keysight N5166B CXG RF Vector 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	USDDP Price
503	CXG RF vector signal generator, 9 kHz – 3 GHz	\$16,995
506	CXG RF vector signal generator, 9 kHz – 6 GHz	\$27,799
653	ARB baseband generator, 60 MHz, 32 MSa	\$4,689
655	Upgrade BBG from 60 to 120 MHz, 32 MSa	\$5,861
022	Upgrade BBG memory from 32 to 512 MSa	\$6,698
221, ...229	Signal Studio Waveform playback license, 5-pack	\$1,649
250, ...259	Signal Studio Waveform playback license, 50-pack	\$8,682

More information: [Refer to N5166B CXG Configuration Guide](#)

Learn more at: www.keysight.com

Key specifications	
Frequency range	9 kHz – 3/6 GHz
Specified output power range	-110 to +18 dBm
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	

Ideal market segments:

-  Consumer electronics design, manufacturing and repair
-  IoT device design and validation
-  General purpose applications, including education

CXG Front Panel Overview



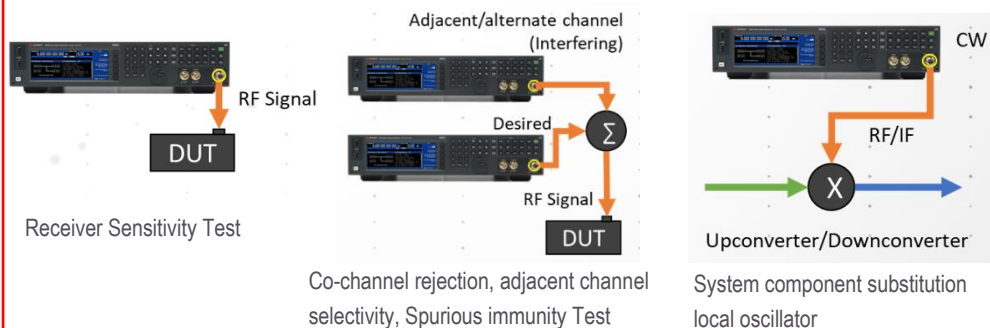
Top 3 reasons: Why buy N5166B CXG

Proven Reliability	Simplified Signal Generation	Low-Cost of ownership
<ul style="list-style-type: none"> Consistent with E/MXG frameworks SCPI commands compatible with many signal sources 	<ul style="list-style-type: none"> Playback offline Signal Studio waveforms Ensure designs meet latest standards 	<ul style="list-style-type: none"> Calibration interval and warranty period: 3-year Target MTBF 116 hours

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



Also Need a Signal Analysis Solution?

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



N5166B CXG RF Vector Signal Generator, 9 kHz – 3/6 GHz

Learn more at: www.keysight.com

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