

# Keysight Technologies

## It's Time To Migrate

## to the X-Series Signal Analyzer and Signal Generator



Your challenge: To test new technologies to the latest measurement standards you need higher levels of performance, greater certainty with respect to support services and the latest instrument connectivity interfaces.

Your solution: Migrate to the X-series signal analyzers and signal generators.

### Higher levels of performance

#### Boost every aspect of your test system performance

The N9000A CXA signal analyzer offer better sensitivity, lower phase noise, wider analysis bandwidth, and Max. 90 times faster sweep than the ESA series spectrum analyzer.

The N5171B EXG and N5181B MXG X-series analog signal generators offer wider frequency coverage, greater output power, and improved signal purity compared with ESG series signal generators.

#### Address advanced measurement needs

With more than 25 X-series measurement applications, the N9000A CXA signal analyzer has increased their measurement coverage substantially beyond the legacy products to meet increasingly advanced measurement needs. 75  $\Omega$  input impedance and tracking generator are also available in the 3/7.5 GHz N9000A CXA.

### Newer connectivity interfaces

The X-series signal analyzers and signal generators come with the latest connectivity standards, including GPIB, USB 2.0, and LAN. Ethernet users in particular will appreciate the 1000 BaseT LAN interface.

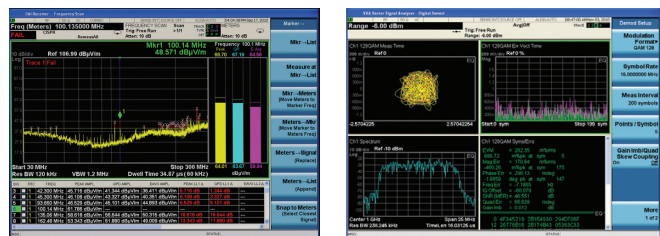
### Greater support service certainty

#### Maximize uptime

The N5171B EXG and N5181B MXG X-series analog signal generators have an exceptional three-year calibration cycle and include only five major sub-assemblies to enable you enjoy the benefits of high reliability and self-maintainability.

#### Expedite equipment upgrades

Achieve seamless migration and reduce transition risks. Extensive backward compatibility enables minimum rewriting code or integrating new drivers.



EMI measurement application and 89600 VSA software

Don't know what to migrate? Check out the migration table below.

Legacy	X-Series
<b>Spectrum/Signal Analyzer</b>	
E440x ESA Series	N9000A CXA X-Series signal analyzer
N1996A CSA	
859x Series	
<b>Analog Signal Generator</b>	
E4400/20/21/22B ESG	N5171B EXG analog X-Series signal generator
8648 Series	
N5181A 1st generation MXG	
E4428C ESG	N5181B MXG analog X-Series signal generator
E4423/24/25/26B ESG	

Check out these premium trade-in promotions. Contact your authorized Keysight Technologies, Inc. distributor sales rep for more information!

Max. 50% trade-in credit for EXG/MXG

Max. 40% trade-in credit for CXA

#### N9000A CXA X-series signal analyzer



- 9 kHz to 3, 7.5, 13.6 or 26.5 GHz; internal preamplifier options up to 26.5 GHz
- 10 MHz (standard), 25 MHz (optional) analysis bandwidth
- Optional built-in tracking generator 3 or 6 GHz (up to 7.5 GHz models)
- Optional additional 75  $\Omega$  input connector, 1.5 GHz (up to 7.5 GHz models)
- Supports > 25 measurement applications, covering cellular communication, wireless connectivity, digital video, and general purpose

#### N5171B EXG X-Series RF Analog Signal Generator



- 9 kHz to 1, 3 or 6 GHz
- +21 dBm specified power to 3 GHz with electronic attenuator
- < 900- $\mu$ s simultaneous switching of frequency and power
- < 0.1 dB level repeatability
- AM, FM,  $\emptyset$ M, pulse, and narrow pulse

#### N5181B MXG X-Series RF Analog Signal Generator



- 9 kHz to 3 or 6 GHz
- +24 dBm specified power to 3 GHz with electronic attenuator
- -146 dBc phase noise at 1 GHz and 20 kHz offset
- -96 dBc non-harmonics at 1 GHz and > 10 kHz offset
- AM, FM,  $\emptyset$ M, pulse, and narrow pulse

For more information visit

[www.keysight.com/find/ESA2CXA](http://www.keysight.com/find/ESA2CXA)

[www.keysight.com/find/MXG2EXG](http://www.keysight.com/find/MXG2EXG)