Product Fact Sheet

Keysight N9000B CXA X-Series Signal Analyzer, Multi-touch

Leading low-cost tool for essential signal characterization

The CXA is today's leading low-cost tool for essential signal characterization. Its capabilities provide a solid foundation for cost-effective testing in general-purpose and educational applications.

As with all X-Series signal analyzers, PowerSuite provides one-button measurements of channel power, adjacent channel power (ACP), occupied bandwidth (OBW), and more. The built-in tracking generator enables cost-effective stimulus/response measurements using a single instrument. For added flexibility, you can quickly and easily reconfigure the CXA with measurement applications that fit changing testing requirements through license-key upgrades.

Ideal for:

- EMI precompliance test and EMI troubleshooting
- Manufacturing test
- Product development

Make an Inspired Connection

Engineering is all about connecting ideas and solving problems. This experience drives the X-Series signal analyzers: they are the benchmark for accessible performance that puts you closer to the answer by easily linking cause and effect.

Across the full spectrum --from CXA to UXA -- you'll find the tools you need to design, test and deliver your next breakthrough. Reach for the X-Series and make an inspired connection.

Deliver better results with a common multi-touch interface

With the X-Series, you can perform most operations in two steps or less using the streamlined, multi-touch user interface. To ensure measurement integrity and repeatable results, we use the same proven algorithms in every X-Series signal analyzer.

To protect your engineering investment, we've implemented 100-percent code compatibility across the family, enabling you to leverage test-system software from R&D to design verification to manufacturing.

See and understand device performance with measurement applications and software

Easily meet specific needs by mixing and matching our analyzers, measurement applications and software. The X-Series applications are proven, ready-to-use measurements that capture measurement expertise and deliver repeatable results.

Our industry-leading 89600 VSA software supports more than 75 signal standards and modulation types, helping accelerate your designs and ensuring that you can measure your signal.

KEYSIGHT TECHNOLOGIES

Unlocking Measurement Insights

Key specifications

Analysis bandwidth	10 MHz standard; 25 MHz optional
Displayed average noise level (DANL)	–163 dBm at 1 GHz with preamplifier on
Third-order intermodulation (TOI) distortion	Up to +17 dBm
W-CDMA ACLR dynamic range (noise correction on)	–73 dB
Phase noise	–110 dBc/Hz at 10 kHz offset (1 GHz carrier)
Amplitude accuracy	± 0.50 dB

All the usability innovations of the X-Series are available in the CXA signal analyzer

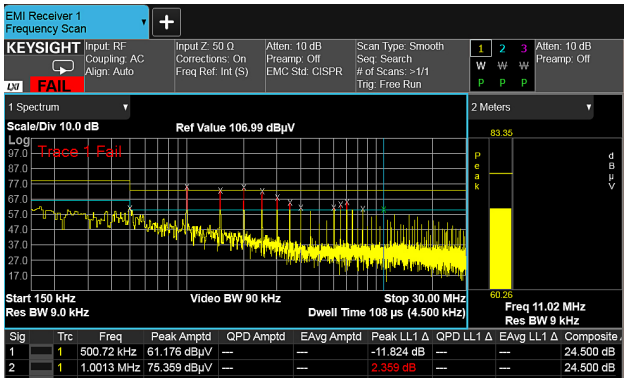

Figure 1. EMI interference analysis

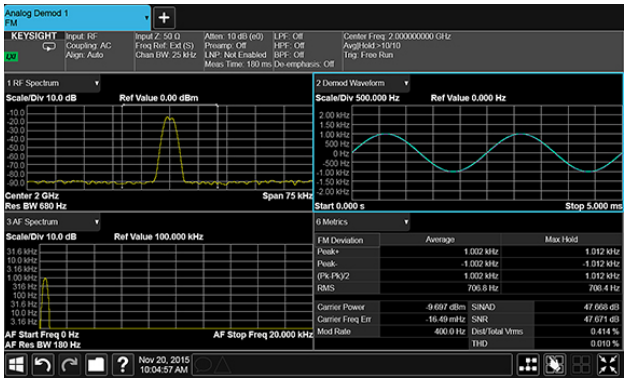

Figure 2. Analog demodulation

Frequency range options

Option number	Description
503	9 kHz to 3.0 GHz
507	9 kHz to 7.5 GHz
513	9 kHz to 13.6 GHz
526	9 kHz to 26.5 GHz

Hardware options

Option number	Description
P03	Preamplifier, 3 GHz
P07	Preamplifier, 7.5 GHz
P13	Preamplifier, 13.6 GHz
P26	Preamplifier, 26.5 GHz
T03[1,2]	Tracking generator, 3 GHz
T06[1,2]	Tracking generator, 6 GHz
C75[1,2]	Additional 75 Ω RF input connector, 1.5 GHz
PFR	Precision frequency reference
FSA	Fine resolution step attenuator
B25	25 MHz analysis bandwidth
PRC	Portable configuration
EMC	Basic precompliance EMC
EDP	Enhanced display package
ESC[1,2]	External source control

1. Requires a hardware upgrade.
2. Not compatible with Option 513 or 526.

Accessories

Option number	Description
1CP105A	Rack mount and handle kit
1CM113A	Rack mount kit
1CN103A	Front handle kit
1CR013A	Rack slide kit for 11/14/16 inch mounting holes

Measurement applications

Option number	Description
General purposes	
N9063C	Analog demodulation
N9054C	Vector modulation analysis
N9068C	Phase noise
N9069C	Noise figure
N9067C	Pulse
N6171A	MATLAB signal analysis software
N6141C	EMI
89601B	89600B VSA software
Cellular communications	
N9071C	GSM/EDGE/Evolution
N9073C	W-CDMA/HSPA/HSPA+
N9080C	LTE/LTE-A FDD
N9082C	LTE/LTE-A TDD
Wireless connectivity	
N9081C	*Bluetooth*®
N9084C	Short range communications, ZigBee/Z-Wave
N9077C	WLAN

Please consult with your distributor for final pricing.

To find a distributor in your area, go to:
www.keysight.com/find/distributors

Keysight Assurance Plans

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Up to ten years of protection and no budgetary surprises to ensure your instruments are operating to specification, so you can rely on accurate measurements.

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