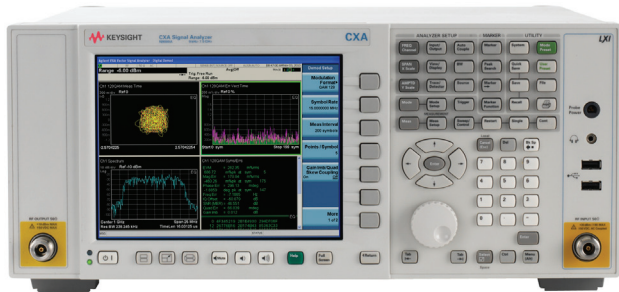


Keysight N9000A CXA X-Series Signal Analyzer

Frequency ranges: 9 kHz to 3.0, 7.5, 13.6 or 26.5 GHz

Master the essentials



A great low-cost signal analyzer surpasses the basics and delivers crucial functionality. That's the strength of the Keysight Technologies, Inc. CXA signal analyzer, the leading low-cost tool for essential signal characterization. Its capabilities provide a foundation for cost-effective testing and seamless integration with the other X-Series models. The CXA is also an excellent teaching tool for RF and microwave technologies and signal analysis. Get must-have capability with X-Series expandability in the CXA— and master the essentials.

CXA is part of the X-Series which is an evolutionary approach to signal analysis that spans instrumentation, measurements and software. It gives you the flexibility to satisfy your business and technical requirements across multiple products and programs—now and in the future. The X-Series also creates a consistent framework that enables your teams to move at a faster pace. Stay ready, stay in sync and arrive ahead—with the Keysight Technologies, Inc. X-Series.

Ideal for:

- RF education
- Manufacturing test
- Product development

X-Series benefits and features:

Future-ready instruments—so you can evolve as technology changes

- Move along the performance curve today and tomorrow without rewriting your test code, optimizing price and performance for whichever technologies you're pursuing and whichever X-Series analyzer you choose to use
- Evolve with commercial PC technology, keeping your test assets current and extending instrument longevity with upgradeable CPU, memory, disk drives, and I/O ports
- Upgrade instrument functionality and applications with no downtime via license key upgrades
- Enhance uptime with proven X-Series reliability and robust hardware architecture

Consistent measurement framework enables teams to move at a faster pace

- Ensure repeatable results and measurement integrity with proven algorithms used across the X-Series
- Boost efficiency and productivity with a common, familiar user-interface: learning one X-Series signal analyzer means knowing them all
- Leverage test-system software from R&D to design verification to manufacturing with 100% code compatibility (programming commands) across the full range of X-Series performance points

Broadest set of applications and software to address all your test needs

- Supports over 25 measurement applications, covering communications, wireless connectivity, digital video and general purpose
- Advanced analysis of more than 75 signal formats, with industry-leading 89600 vector signal analysis (VSA) software
- MATLAB data analysis software for general purpose data analysis, visualization, and measurement automation
- Keysight's PowerSuite one-button power measurements included as standard

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)	-66 dB, for Option 503 and 507 -73 dB, for Option 513 and 526
Phase noise	-102 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 low-cost CXA signal analyzer

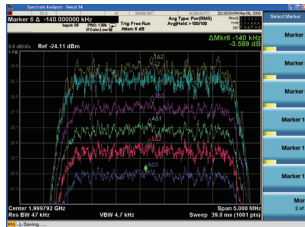


Figure 1. Power suite (spectrum emission mask)

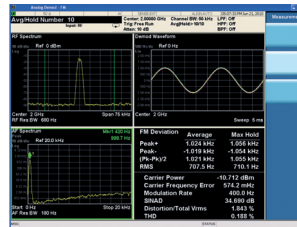


Figure 2. Analog demodulation

Frequency range options

Option number	Description (not upgradeable)
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 (license key upgradeable)
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 ²	External source control

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

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

Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five 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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Accessories

Option number	Description
1CP	Rack mount and handle kit
1CM	Rack mount kit
1CN	Front handle kit
1CR	Rack slide kit
HTC	Hard transit case

Measurement applications

Option number	Description
General purpose	
W9063A ¹	Analog demodulation
W9068A	Phase noise
W9069A	Noise figure
W6141A ¹	EMI
N6171A ¹	MATLAB signal analysis software
N9051A ¹	Pulse measurement software
W9062A ¹	SCPI language compatibility
W9064A	VXA vector signal modulation analysis
89601B	89600B VSA software
Wireless	
W9077A ¹	WLAN
W9075A ¹	802.16 OFDMA
W9081A ¹	Bluetooth®
Cellular communications	
W9073A ¹	W-CDMA
W9071A ¹	GSM/EDGE
W9079A ¹	TD-SCDMA
W9072A ¹	cdma2000®/cdmaOne
W9076A ¹	1xEV-DO
W9080A ¹	LTE FDD
W9082A ¹	LTE TDD
W9083A ¹	Multi-standard radio
Digital video	
W6158A ¹	CMMB
W6152A ¹	Digital cable TV
W6156A ¹	DTMB (CTTB)
W6153A ¹	DVB-T/H/T2
W6155A ¹	ISDB-T/Tmm

1. Not compatible with Option 513 or 526.