

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9000A

The Keysight N9000A (formerly Agilent) is a versatile CXA Signal Analyzer and part of the X-Series portfolio. Designed as an economical, general-purpose spectrum analyzer, it delivers dependable fundamental signal characterization from 9 kHz up to 26.5 GHz depending on the installed option. It provides standard 10 MHz analysis bandwidth (expandable to 25 MHz) and built-in tracking generator capabilities for component testing. Running on an integrated Windows-based OS, the N9000A offers LXI Class C compliance, an 8.4-inch high-resolution color display, and wide compatibility with X-Series measurement applications.

SPECIFICATIONS

General

Interfaces	USB 2.0 (Host & Device), 10/100/1000Base-T LAN, GPIB (IEEE-488), VGA output
Display	8.4-inch color LCD (1024 × 768 resolution)
Warm-up Time	5 minutes
Recommended Calibration Cycle	1 year

Physical

Dimensions (W×H×D)	426 × 177 × 368 mm mm
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Frequency Specifications

Frequency Range	9 kHz to 3.0, 7.5, 13.6, or 26.5 GHz (configuration dependent)
Span Range	0 Hz (zero span), 10 Hz to maximum instrument frequency
Marker Frequency Resolution	Frequency Span / (Sweep Points - 1)
Frequency Reference Aging Rate	$\pm 1 \times 10^{-6}$ /year (Standard); $\pm 1 \times 10^{-7}$ /year (Option PFR)

Bandwidth

Resolution Bandwidth (RBW) Range	1 Hz to 3 MHz (10% steps); plus 4, 5, 6, 8 MHz
Video Bandwidth (VBW) Range	1 Hz to 3 MHz (10% steps); plus 4, 5, 6, 8, 50 MHz
Analysis Bandwidth	10 MHz (Standard); 25 MHz (Option B25)

Amplitude Specifications

Maximum Safe Input Level (Average Power)	+30 dBm (1 W)
Maximum DC Voltage	± 50 Vdc
Input Attenuator Range	0 to 50 dB (10 dB steps standard; 2 dB steps with Option FSA)

Sweep Specifications

Sweep Time Range (Span > 0 Hz)	1 ms to 4000 s
Sweep Time Range (Zero Span)	1 μ s to 6000 s
Sweep Trigger Modes	Free Run, Line, Video, External 1, External 2, RF Burst, Periodic Timer

General and Physical Specifications

Operating System	Windows OS based
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Environmental and Compliance

Storage Temperature	-40 to 65 °C
Operating Altitude	Up to 4,600 meters (15,000 ft)
LXI Compliance	LXI Class C

Available Options and Configurations

Frequency Range Options	Option 503 (3.0 GHz), Option 507 (7.5 GHz), Option 513 (13.6 GHz), Option 526 (26.5 GHz)
Tracking Generator Option	Up to 3.0 GHz (Option T03) or 6.0 GHz (Option T06)
Preamplifier Options	Option P03, P07, P13, P26 (Corresponds to maximum frequency limit)

Performance

Trace Detectors	Normal, peak, sample, negative peak, log power average, RMS average, voltage average
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Inputs & Outputs

RF Input Connector	Type-N (female), 50 Ω (standard)
External Reference Input	BNC (female), 50 Ω
Reference Frequency Output	10 MHz, BNC (female), 50 Ω
Trigger Inputs/Outputs	BNC (female)
Input VSWR (10 MHz to 3.0 GHz)	< 1.5:1 nominal ($\geq$ 10 dB attenuation)

Compliance

EMC Compliance	IEC/EN 61326-1, CISPR 11 Group 1 Class A
Safety Compliance	IEC/EN 61010-1, CAN/CSA-C22.2 No. 61010-1

Sweep

Sweep Points	1 to 40,001
Sweep Time Accuracy	$\pm$ 0.01% nominal

Traces

Number of Traces	6
Trace Functions	Clear/write, max hold, min hold, average, view, blank

Amplitude

Input Attenuator Step Size	10 dB (Standard) / 2 dB (with Option FSA)
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Tracking Generator

Tracking Generator Output Level	-50 dBm to 0 dBm (with Option T03 or T07)
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Software

Standard Measurement Applications	Spectrum Analyzer, IQ Analyzer
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TECHNOLOGY

Superheterodyne / Fast Fourier Transform (FFT)

APPLICATIONS

General Purpose RF & Microwave Test, Manufacturing, Education, IoT, and Wireless Communications

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