

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9010A

The Keysight N9010A EXA Signal Analyzer is an economy-class instrument designed for high throughput on production lines and cost-effective troubleshooting in development and manufacturing. It offers fast and accurate signal analysis capabilities with broad application coverage and modern connectivity.

SPECIFICATIONS

General

Interfaces	USB 2.0, 1000Base-T LAN, GPIB
Display	10.4 inch, XGA (1024x768) color LCD
Recommended Calibration Interval	1 year
Environmental Compliance	RoHS compliant, WEEE compliant

Physical

Power Supply	100-240 VAC, 50/60 Hz, 300 W (typical) - 450 W (maximum, option dependent)
Operating Temperature	0 to +55 °C °C
Dimensions (W×H×D)	426 mm x 177 mm x 472 mm (W x H x D, excluding protrusions) mm
Weight	19 kg (base unit) kg
Rack Mount Kit	Available
Security Slot	Kensington Lock compatible

Frequency Specifications

Frequency Range	9 kHz to 3.6 GHz (N9010A-503 option dependent)
-----------------	--

Amplitude Specifications

Absolute Amplitude Accuracy	±0.27 dB
Third Order Intercept (TOI)	+13 dBm
Displayed Average Noise Level (DANL)	-146 dBm
W-CDMA ACLR Dynamic Range	-73 dBc (with noise correction on)

Analysis Bandwidth (Vector Signal Analysis)

Maximum Analysis Bandwidth	10 MHz (standard)
----------------------------	-------------------

General Characteristics

Operating System	Open Windows® XP Professional
Internal Storage	160 GB removable hard drive (shipped after March, 2010)
User Interface	Common X-Series user interface

Options and Accessories

Measurement Application Options	LTE, W-CDMA, HSDPA/HSUPA, Phase Noise
Measurement Application Software	Agilent 89600 Vector Signal Analysis (VSA) software
Data Analysis Software	MATLAB® data analysis software
Hardware Option	Fine step attenuator (N9010A-FSA)

Connectivity

LXI Compliance	LXI class C compliant
Remote Programming Language Compatibility	SCPI and IVI-COM
RF Input Connector	Type N female
External Reference Input	10 MHz, BNC female
External Reference Output	10 MHz, BNC female
LAN Interface Speed	1000Base-T
USB Ports	1x USB 2.0 (front), 5x USB 2.0 (rear)
Video Output Ports	DVI-D, DisplayPort
GPIB Interface	Standard
Trigger Input/Output Connectors	BNC

Spectrum Analysis

Resolution Bandwidth (RBW)	1 Hz to 8 MHz (standard), 200 Hz, 9 kHz, 120 kHz, 1 MHz (CISPR compliant EMI RBW)
Video Bandwidth (VBW)	1 Hz to 8 MHz
Sweep Time	1 ms to 4000 s

Performance

Phase Noise (10 kHz offset)	-115 dBc/Hz @ 1 GHz (10 kHz offset), -101 dBc/Hz @ 10 GHz (10 kHz offset)
-----------------------------	---

Input Specifications

Maximum Input Level	+30 dBm (with attenuator), +20 dBm (0 dB attenuation)
Input Impedance	50 Ohm

Environmental

Storage Temperature	-40 to +70 °C
Humidity	5% to 95% RH (non-condensing)
Altitude	Operating: 4,600 m, Non-operating: 15,300 m

Compliance

EMC Compliance	CISPR 11 / EN 55011 Group 1, Class A, IEC/EN 61326-1
Safety Compliance	IEC/EN 61010-1

Internal Architecture

Digitizer Resolution	16-bit
----------------------	--------

RF Performance

Input Attenuator Range	0 to 70 dB
Input Attenuator Step Size	10 dB
Preamplifier Availability	Option PXX (frequency-dependent)
Analysis Bandwidth Options	25 / 40 / 85 / 160 / 255 MHz (option dependent)

Measurement Capabilities

Detector Types	Peak, Negative Peak, Sample, RMS, Average (Power/Voltage/Log), Quasi-Peak
Trace Types	Clear/Write, Max Hold, Min Hold, View, Blank, Average

Frequency

Internal Frequency Reference Accuracy (Standard)	+/- 0.05 ppm
Internal Frequency Reference Aging Rate (Standard)	1 ppm/year
Internal Frequency Reference Accuracy (High Stability OCXO Option)	+/- 0.005 ppm
Internal Frequency Reference Aging Rate (High Stability OCXO Option)	0.005 ppm/year

Power

AC Input Voltage Range	100 - 240 VAC
AC Input Frequency Range	50 / 60 / 400 Hz
Power Consumption (Typical)	250 W
Power Consumption (Maximum)	350 W

TECHNOLOGY

Signal Analysis

APPLICATIONS

Manufacturing Test, Wireless Communication Testing, General Purpose RF Analysis, Troubleshooting

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.