

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9010A-526

The Keysight N9010A-526 EXA is a high-performance signal analyzer covering a frequency range from 10 Hz to 26.5 GHz. As a key member of the X-Series signal analyzers, the N9010A-526 provides speed, versatility, and accuracy for RF and microwave measurement applications, offering expandable analysis bandwidth and exceptional sensitivity.

SPECIFICATIONS

General

Interfaces	USB 2.0, LAN (1000Base-T), GPIB, LXI Class C
Display	10.4-inch XGA TFT color LCD with resistive touchscreen, 1024 x 768 resolution
Warm-up Time	45 minutes

Physical

Power Supply	100 to 120 V AC (50/60/400 Hz), 220 to 240 V AC (50/60 Hz), < 350 W max power consumption
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	426 mm x 177 mm x 368 mm mm
Weight	16.3 kg kg

Frequency and Time Specifications

Frequency Range	10 Hz to 26.5 GHz
Frequency Span Range	0 Hz (zero span), 10 Hz to 26.5 GHz
Standard Frequency Reference Aging Rate	$\pm 1.0 \times 10^{-6}$ per year
Option PFR Frequency Reference Aging Rate	$\pm 1.0 \times 10^{-7}$ per year
Standard Frequency Reference Temperature Stability	$\pm 2.0 \times 10^{-6}$
Option PFR Frequency Reference Temperature Stability	$\pm 1.5 \times 10^{-8}$

Inputs, Outputs, and Connectivity

RF Input Impedance	50 Ω
RF Input VSWR (10 MHz to 3.6 GHz)	< 1.2:1 (typical)
RF Input VSWR (3.6 GHz to 26.5 GHz)	< 1.9:1 (typical)
RF Input Connector Type	3.5 mm female (50 Ω)
10 MHz Reference Input	BNC female, -5 to +10 dBm
10 MHz Reference Output	BNC female, ≥ 0 dBm
External Trigger Input	BNC female, impedance > 10 k Ω
Display Output	VGA (15-pin D-sub)

Bandwidth and Sweep

Resolution Bandwidth (RBW) Range	1 Hz to 8 MHz (with Option-dependent extensions)
Video Bandwidth (VBW) Range	1 Hz to 8 MHz, plus Wide Open
Sweep Points Range	1 to 40001
Sweep Triggers	Free Run, Line, Video, External 1, External 2, RF Burst, Periodic

Analysis and Real-Time Capabilities

Standard Analysis Bandwidth	10 MHz
Maximum Analysis Bandwidth (with Options)	25 MHz (Option B25), 40 MHz (Option B40)

Control and Software

Operating System	Windows Embedded Standard 7
Standard Measurements	Channel Power, ACP, OBW, SEM, CCDF, Spurious Emissions
Remote Programming Interfaces	SCPI, LXI, IVI-COM

Physical, Environmental, and Power

Recommended Calibration Cycle	1 year
Storage Temperature Range	-40 to +70 °C

Amplitude Specifications

Maximum Input Level (RF Power, Attenuation ≥ 10 dB)	+30 dBm (1 W)
Maximum Input Level (DC Voltage)	0 V DC
Absolute Amplitude Accuracy (at 50 MHz)	± 0.33 dB
Preamplifier Option Frequency Range	100 kHz to 26.5 GHz (Option P26)
Displayed Average Noise Level (DANL) at 1 GHz (Preamplifier Off)	-148 dBm/Hz (typical)
Displayed Average Noise Level (DANL) at 1 GHz (Preamplifier On)	-163 dBm/Hz (typical)

Phase Noise and Spurious

Phase Noise at 1 GHz Carrier (10 kHz offset)	-106 dBc/Hz (typical)
Phase Noise at 1 GHz Carrier (100 kHz offset)	-115 dBc/Hz (typical)
Phase Noise at 1 GHz Carrier (1 MHz offset)	-135 dBc/Hz (-137 dBc/Hz typical)

Performance

Sweep Time Range (Span ≥ 10 Hz)	1 ms to 4000 s
Sweep Time Range (Zero Span)	1 μ s to 6000 s
Noise Floor Extension (Option NFE)	Improves Displayed Average Noise Level (DANL) by up to 10 dB (typical)
EMI Bandwidths (with Option EMC)	200 Hz, 9 kHz, 120 kHz, 1 MHz (CISPR compliant); 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz, 1 MHz (MIL-STD compliant)

RF Input

Mechanical Attenuator Range	0 to 60 dB in 10 dB steps (0 to 60 dB in 2 dB steps with Option FSA)
Electronic Attenuator Range	0 to 24 dB in 1 dB steps (up to 3.6 GHz, with Option EA3)

Dynamic Range

1 dB Gain Compression at 1 GHz	+5 dBm (nominal)
Third-Order Intermodulation Distortion (TOI) at 1 GHz	+13 dBm (+17 dBm typical)

Options

Preamplifier Options	Option P03 (100 kHz to 3.6 GHz), Option P08 (100 kHz to 8.4 GHz), Option P13 (100 kHz to 13.6 GHz), Option P26 (100 kHz to 26.5 GHz)
Microwave Preselector Bypass	Available as Option MPB (requires frequency option ≥ 8.4 GHz)

Display

Display Size	213 mm (8.4 in) diagonal nominal
Display Resolution	1024 × 768 pixels (XGA)

Inputs & Outputs

USB Ports	1x USB 2.0 (front panel), 4x USB 2.0 (rear panel)
LAN Interface	10/100/1000Base-T LAN (RJ-45)
GPIB Interface	IEEE-488 GPIB interface (with Option GPB)
VGA Output	15-pin D-sub VGA output
Trigger Outputs	2x BNC female, 5 V TTL nominal

Power

Power Consumption	350 W (maximum), 180 W (typical)
AC Power Input Range	100 to 120 V AC (50/60/400 Hz), 220 to 240 V AC (50/60 Hz)

Environmental

Maximum Operating Altitude	3,000 m
Operating Humidity Range	Up to 95% RH at 40 °C (non-condensing)
Operating Vibration	Random: 0.21 g rms, 5 to 500 Hz

Frequency

Frequency Resolution	0.01 Hz
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Measurement Performance

Trace Detectors	Normal, Peak, Sample, Negative Peak, Log Power Average, RMS Average, Voltage Average
Number of Traces	6

Triggering

Trigger Delay Range	-150 ms to +500 ms (Zero span)
Gate Delay Range	0 to 100 s
Gate Length Range	100 ns to 5.0 s

Preamplifier

Option P26 Preamplifier Frequency Range	100 kHz to 26.5 GHz
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Bandwidth

Analysis Bandwidth Options	10 MHz (Standard), 25 MHz (Option B25), 40 MHz (Option B40)
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Interfaces

LXI Compliance	LXI Class C compliant
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Software & Programming

Command Language Compatibility	SCPI, Keysight/Agilent EXA, ESA, PSA
Instrument Control Drivers	IVI-COM, IVI-C, LabVIEW

Data Storage & Export

Supported File Formats	CSV, TXT, PNG, BMP, GIF, Setup (.state), Trace (.trace), Limit (.limit)
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Compliance

EMC Compliance Standards	IEC/EN 61326-1, CISPR 11 Group 1 Class A, AS/NZS CISPR 11, ICES/NMB-001
Safety Compliance Standards	IEC 61010-1, EN 61010-1, CAN/CSA-C22.2 No. 61010-1, UL 61010-1

TECHNOLOGY

Signal and Spectrum Analysis

APPLICATIONS

RF and Microwave Test and Measurement

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