

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9040B

The Keysight N9040B UXA is the flagship X-Series signal analyzer, delivering high-performance real-time spectrum analysis. With baseline frequency coverage up to 26.5 GHz (extensible to 1.1 THz with external mixing) and analysis bandwidths up to 510 MHz, it offers industry-leading phase noise and dynamic range. Equipped with a streamlined 14.1-inch touchscreen and comprehensive measurement software, the UXA is designed for advanced aerospace, defense, and commercial communications applications.

SPECIFICATIONS

General

Interfaces	USB 3.0, USB 2.0, 1000Base-T LAN, GPIB
Display	14.1-inch touch-driven interface
Data Storage	Removable solid-state drive (SSD)
Calibration Cycle	1 year

Physical

Power Supply	100 to 120 V, 50/60/400 Hz; 220 to 240 V, 50/60 Hz
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Frequency Specifications

Frequency Range	2 Hz to 8.4, 13.6, 26.5, 44, or 50 GHz
Frequency Band Options	Option 508 (8.4 GHz), Option 513 (13.6 GHz), Option 526 (26.5 GHz), Option 544 (44 GHz), Option 550 (50 GHz)
Frequency Extension	Up to 110 GHz with Keysight smart mixers; up to 1.1 THz with standard external mixing
Phase Noise @ 10 kHz Offset	-136 dBc/Hz (@ 1 GHz carrier)

Amplitude Specifications

Absolute Amplitude Accuracy	±0.16 dB
Spurious-Free Dynamic Range (SFDR)	>78 dBc (full band)

Analysis Bandwidth & Spurious Responses

Standard Analysis Bandwidth	25 MHz
Real-Time Analysis Capabilities	Optional

Sweep and Trace Specifications

Sweep Capabilities	Fast sweep capability (standard)
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Software & Measurement Functions

One-Button Power Measurements	Keysight PowerSuite (standard), fast power measurements (optional)
Remote Control / SCPI Compatibility	LXI compliant, SCPI, IVI-COM

Inputs & Outputs

RF Input Connector (44 GHz & 50 GHz Options)	2.4 mm (male)
External Reference Input	10 MHz (BNC)

RF Input

Input Attenuator	0 to 70 dB in 2 dB steps
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Amplitude

Maximum Safe Input Power	+30 dBm (1 W)
Amplitude Measurement Range	Displayed Average Noise Level (DANL) to +30 dBm

Bandwidth

Resolution Bandwidth (RBW)	1 Hz to 8 MHz
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Analysis

Trace Detectors	Normal, Positive Peak, Negative Peak, Sample, RMS Average, Voltage Average, Log Power Average
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Triggering

Trigger Sources	Free Run, Video, Line, External 1, External 2, RF Burst, Periodic Timer
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TECHNOLOGY

Real-Time Signal Analyzer (RTSA)

APPLICATIONS

Aerospace, defense, and commercial communications wideband signal analysis

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