

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9340B

The Keysight (formerly Agilent) N9340B is a rugged, handheld RF spectrum analyzer designed for field applications. It offers a frequency range of 100 kHz to 3 GHz with features optimized for portability and ease of use, including a 4-hour battery life, built-in light sensor, back-lit keys, and a bright 6.5-inch color display. It delivers solid performance in the field with a displayed average noise level down to -144 dBm (with optional pre-amplifier) and standard one-button power measurements.

SPECIFICATIONS

General

Interfaces	USB (Host and SCPI remote control), LAN (SCPI remote control)
Display	7.2-inch TFT color LCD (indoor and outdoor use)
Warm-up Time	30 minutes
Calibration Cycle	1 year

Physical

Power Supply	100 to 240 VAC, 50/60 Hz (via AC/DC adapter); 15 VDC, 5.3 A input
Operating Temperature	-10 to 50 °C °C
Dimensions (W×H×D)	318 × 207 × 69 mm mm
Weight	3.2 kg kg
Display Resolution	640 × 480 pixels

Frequency Specifications

Frequency Range	100 kHz to 3 GHz
Resolution Bandwidth (RBW) Range	30 Hz to 1 MHz (1-3-10 sequence)

Sweep Specifications

Sweep Time Range (Non-zero Span)	≥ 10 ms
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Amplitude Specifications

Displayed Average Noise Level (DANL)	-144 dBm (with 3 GHz pre-amplifier option)
Third-Order Intercept (TOI)	+10 dBm

Options & Accessories

Pre-amplifier (Option)	3 GHz Pre-amplifier
Tracking Generator (Option)	3 GHz Tracking generator

Measurement Capabilities & Features

Modulation Analysis (Option)	AM/FM and ASK/FSK modulation analysis
Standard Measurements	Channel power, Adjacent Channel Power Ratio (ACPR), Occupied Bandwidth (OBW), Field strength, Spectrum emission mask

Connectivity and Interfaces

Power Sensor Support	Compatible with Keysight/Agilent USB power sensors
Remote Control Interface	SCPI via USB and LAN ports

Display and User Interface

User Interface Languages	11 languages
Keypad	Back-lit keys for night use
Display Brightness Control	Built-in light sensor

Power Specifications

Battery Operating Time	4 hours
Automotive Power	12V DC adaptor option available

Physical Specifications

Transit Case	Hard transit case option available
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Frequency

Video Bandwidth (VBW)	3 Hz to 1 MHz (1-3-10 sequence)
Internal Reference Frequency	10 MHz
Reference Aging Rate	±1 ppm / year
External Reference Input Frequency	10 MHz

Performance

Phase Noise	<-87 dBc/Hz @ 30 kHz offset (typical, $f_c = 500$ MHz)
Overall Amplitude Accuracy	±1.5 dB (20 °C to 30 °C)
Input VSWR	< 1.5:1 (typical, ≥ 10 dB attenuation)
Tracking Generator Frequency (Option TG3)	5 MHz to 3 GHz
Tracking Generator Output Level (Option TG3)	0 to -25 dBm (1 dB steps)

Inputs & Outputs

Maximum Safe Input Level	+33 dBm (3 minutes maximum), 50 VDC
RF Input Connector	N-type (female), 50 Ω
RF Input Impedance	50 Ω (nominal)
External Trigger Input	BNC(f), 5 V TTL
External Reference Input Level	-5 to +10 dBm
External Reference Connector	BNC(f)

Environmental

Storage Temperature	-40 to 70 °C
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Amplitude

Input Attenuator Range	0 to 51 dB (1 dB steps)
Reference Level Range	-100 dBm to +30 dBm
Amplitude Range	DANL to +30 dBm

Analysis & Signal Processing

Detectors	Normal, Positive-peak, Negative-peak, Sample, RMS
Trace Functions	Clear/write, Maximum hold, Minimum hold, Average
Sweep Modes	Continuous, Single
Trigger Sources	Free run, Video, External

TECHNOLOGY

Superheterodyne Spectrum Analysis

APPLICATIONS

Field RF Testing, Installation and Maintenance, Spectrum Monitoring

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