

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9322C

The Keysight N9322C (BSA) is a basic spectrum analyzer designed for budget-constrained applications in R&D, manufacturing, maintenance, education labs, and spectrum management. Delivering superior RF performance, it features standard USB and LAN connectivity, an optional 7 GHz tracking generator with built-in VSWR bridge, and SCPI command compatibility with ESA spectrum analyzers.

SPECIFICATIONS

General

Warm-up Time	45 minutes
Security Slot	Kensington lock compatible (rear panel)

Frequency Specifications

Frequency Range	9 kHz to 7 GHz
Frequency Span Range	0 Hz (zero span), 100 Hz to 7 GHz
Frequency Span Resolution	1 Hz

Amplitude Specifications

Input Attenuation Range	0 to 50 dB, in 1 dB steps
Marker Level Readout Resolution	0.01 dB (log scale)

Bandwidth (RBW/VBW)

Resolution Bandwidth (RBW) Range	10 Hz to 3 MHz
Resolution Filter Shape Factor	<5:1 nominal (60 dB/3 dB bandwidth ratio, digital, Gaussian-like)
Video Bandwidth (VBW) Range	1 Hz to 3 MHz

Sweep and Trigger

Sweep Mode	Continuous, Single
Sweep Time Rule	Accuracy or Speed
Trigger Slope	Selectable positive or negative edge

Preamplifier and Demodulation Options

Demodulation Capabilities	AM, FM, ASK, FSK
---------------------------	------------------

Inputs and Outputs

RF Input Connector	N-type female, 50 Ω nominal
RF Input VSWR (10 MHz to 3 GHz)	<1.5:1 nominal (input attenuator ≥ 10 dB or 20 dB fixed attenuation)
RF Input VSWR (3 to 7 GHz)	<2.0:1 nominal
10 MHz Reference Output Connector	BNC-type female, 50 Ω nominal
10 MHz Reference Input Frequency	10 MHz
10 MHz Reference Input Connector	BNC-type female, 50 Ω nominal

Measurement Features

Number of Traces	4
Detector Types	Positive-peak, negative-peak, sample, normal, average (video, RMS, voltage)
Trace Functions	Clear/write, maximum hold, average, minimum hold
One-Button PowerSuite Measurements	CHP, OBW, ACPR, SEM, spectrogram
Channel Scanner Capacity	Up to 20 channels simultaneously
Time-Gated Spectrum Analysis	Supported

Tracking Generator (Optional)

Tracking Generator Reflection Measurements	Return loss, insertion loss, distance-to-fault
--	--

General Specifications

Command Compatibility	SCPI commands compatible with ESA spectrum analyzers
Supported PC Software	Agilent HSA and BSA PC software

Phase Noise

SSB Phase Noise at 10 kHz Offset	<-90 dBc/Hz (typical <-92 dBc/Hz) @ 1 GHz carrier
SSB Phase Noise at 100 kHz Offset	<-100 dBc/Hz (typical <-102 dBc/Hz) @ 1 GHz carrier

Compliance

Electromagnetic Compatibility (EMC)	Complies with European EMC Directive 2004/108/EC, EN 61326-1
-------------------------------------	--

Memory

Internal Storage Capacity	64 MB (nominal)
---------------------------	-----------------

Interfaces

GPIO Port Option	IEEE-488 bus connector (with Option G01)
VGA Output Port	15-pin D-sub (female), rear panel, resolution 640 $\times$ 480
USB Host Interface	USB 2.0 Type-A (one front panel, one rear panel)
USB Device Interface	USB 2.0 Type-B (rear panel)
LAN Interface	10/100 Base-T, RJ-45 connector

Power Supply

Power Consumption	< 25 W
-------------------	--------

Demodulation Capabilities

AM/FM Demodulation Analysis Carrier Frequency Range	10 MHz to 7 GHz (Option AMA)
ASK/FSK Demodulation Analysis Carrier Frequency Range	10 MHz to 7 GHz (Option DMA)

TECHNOLOGY

RF Spectrum Analysis

APPLICATIONS

R&D, manufacturing, maintenance, education, spectrum management, and bench repair

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