

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5225A

The Keysight (formerly Agilent) N5225A is a high-performance PNA Microwave Vector Network Analyzer covering a frequency range of 10 MHz to 50 GHz. Available in 2-port or 4-port configurations with up to two built-in sources, it provides industry-leading accuracy for testing passive and active components. It features a robust 127 dB system dynamic range, exceptional linear receiver performance, and wide intermediate frequency (IF) bandwidths up to 15 MHz, making it ideal for demanding device characterization, signal integrity, and millimeter-wave applications.

SPECIFICATIONS

General

Interfaces	LAN (10/100/1000Base-T), USB 2.0 (front and rear), GPIB (IEEE-488)
Display	10.4-inch color touch screen

General Characteristics

Frequency Range	10 MHz to 50 GHz
Number of Ports	2 or 4 (configuration dependent)
Test Port Connector Type	2.4 mm (male)
System Impedance	50 Ω nominal

Measurement Speed and Throughput

Measurement Points	Up to 100,001 points
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Connectivity and Interfaces

External Reference Input (10 MHz)	Yes (BNC)
Internal Reference Output (10 MHz)	Yes (BNC)

Performance

Source Power Resolution	0.01 dB
Frequency Accuracy	± 1 ppm

Options

Hardware Options (2-Port)	Options 200, 201, 217, 219
Hardware Options (4-Port)	Options 400, 401, 417, 419
Time Domain Capability	Option 010
Frequency Offset Capability	Option 080

Options & Upgrades

Front Panel IF Access	Available via Option 020
Noise Figure Measurements	Available via Option 029 (Requires specific hardware options)
Mixer / Converter Measurements	Available via Options 082 (Scalar), 083 (Vector & Scalar), and 084 (Embedded LO)
True-Mode Stimulus	Available via Option 460 (Requires 4-port configuration)

Compliance

LXI Compliance	LXI Class C
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TECHNOLOGY

Vector Network Analysis (VNA)

APPLICATIONS

Passive and active device characterization, S-parameter measurement, signal integrity, materials measurement, millimeter-wave

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