

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5244A

The Keysight (formerly Agilent) N5244A is a high-performance microwave vector network analyzer from the PNA-X series, covering a frequency range of 10 MHz to 43.5 GHz. Available in 2- or 4-port configurations, it is highly configurable with up to two built-in sources, an internal combiner, and signal-routing switches. It serves as a single-connection measurement solution for advanced active device characterization, including S-parameters, noise figure, gain compression, and intermodulation distortion (IMD), while offering pulse generation and millimeter-wave extension capabilities.

SPECIFICATIONS

General

Interfaces	GPIO, LAN (10/100/1000Base-T), USB 2.0 (Host and Device)
Display	10.4-inch TFT color touchscreen (1024 x 768 XGA)
Warm-up Time	90 minutes (for specified accuracy)

Physical

Operating Temperature	0 to +40 °C
Dimensions (W×H×D)	426 × 266 × 582 mm

System Performance

Frequency Range	10 MHz to 43.5 GHz
Frequency Resolution	1 Hz
Measurement Channels	32 channels
IF Bandwidth Range	1 Hz to 5 MHz

Test Port Characteristics

Number of Ports	2 or 4 ports
Test Port Connector Type	2.4 mm (male)
Port Impedance	50 ohms

Hardware Options and Architecture

Internal Source Count	2 (built-in on 4-port models)
Internal Combiners	Built-in (option dependent)
Pulse Generators / Modulators	Internal (option dependent)
Configurable Test Set	Internal signal-routing switches

Measurement Capabilities

Supported Measurements	CW and pulsed S-parameters, gain compression, IMD, and noise figure
Non-Linear Measurements	Optional NVNA application
Millimeter-Wave Support	50 GHz to 0.5 THz with external test controllers and modules (Option 020 required)

Display and Control

Operating System	Windows OS
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Performance

Output Power Resolution	0.01 dB
Test Port Damage Level	+27 dBm RF, ±40 VDC
Sweep Types	Linear Frequency, CW Frequency, Segment, Power, Phase

Data Processing

Data Formats	Log/Linear Magnitude, Phase, Unwrapped Phase, Group Delay, Smith Chart, Polar, SWR, Real, Imaginary
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Physical & Security

Removable Storage	Removable Hard Disk Drive (HDD) or Solid State Drive (SSD)
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Compliance

LXI Compliance	LXI Class C
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Connectivity & Rear Panel

10 MHz Reference Output	BNC female, sine wave
External Trigger Input	BNC female, TTL/CMOS compatible
Handler I/O	36-pin parallel interface

TECHNOLOGY

Vector Network Analyzer (VNA)

APPLICATIONS

Active Device Test (Amplifiers, Mixers, Converters)

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