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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5244A 43.5 GHz PNA-X Microwave Network Analyzer

Agilent Keysight N5244A PNA-X Network Analyzer 43.5 GHz The Keysight N5244A isaPNA-X Series microwave vector network analyzer covering 10 MHz to 43.5 GHz. OEM PNA family configuration guides and technical specifications list 1 Hz frequency resolution and plus or minus 1 ppm frequency accuracy with 2-port and/or 4-port option architectures. S-parameter characterization of RF/microwave components across 10 MHz to 43.5 GHz, calibration with compatible kits, and R&D/production VNA measurements. High Stability Timebase Stability Class: plus or minus 0.05 ppm -10 C to 70 C class The Keysight N5244A isaPNA-X Series microwave vector network analyzer covering 10 MHz to 43.5 GHz. OEM PNA family configuration guides and technical specifications list 1 Hz frequency resolution and plus or minus 1 ppm frequency accuracy with 2-port and/or 4-port option architectures. S-parameter characterization of RF/microwave components across 10 MHz to 43.5 GHz, calibration with compatible kits, and R&D/production VNA measurements. High Stability Timebase Stability Class: plus or minus 0.05 ppm -10 C to 70 C class



MODEL

**Agilent / Keysight
N5244A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5244A

LISTING

<https://aumictechlabs.com/products/n5244a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5244A is a 43.5 GHz PNA-X Microwave Network Analyzer delivering integrated linear and nonlinear component characterization in a single instrument. Operating from 10 MHz to 43.5 GHz with up to four ports and dual internal sources, it combines signal generation, test switching, and analysis capabilities to replace multiple standalone instruments. The system achieves 126 dB dynamic range, supports both CW and pulsed S-parameter measurements, and includes built-in bias-tees and source/receiver attenuators for active device evaluation.

Technical Specifications

- Frequency Range: 10 MHz to 43.5 GHz
- Port Configuration: 2 or 4 ports
- Internal Sources: One or two
- System Dynamic Range: 126 dB
- Receiver Dynamic Range: 129 dB
- Maximum Output Power: +13 dBm
- High Output Power: +16 dB
- Power Sweep Range: 38 dB to 41 dB
- IF Bandwidth: 15 MHz
- Data Points: Up to 32,001
- Noise Floor: -111 dBm at 10 Hz IF bandwidth
- Receiver Compression: 0.1 dB with +15 dBm input power
- Harmonic Performance: -60 dBc
- Test Port Connectors: 50 Ω , ruggedized 2.4 mm (m)

Key Features

- Dual internal sources enable IMD, hot-S22, and high-speed swept-LO measurements
- Internal signal combiner and routing switches for flexible test configurations
- Pulsed RF measurements via internal pulse generators/modulators
- Optional noise figure measurement with source-correction technique
- Time-domain measurements available (Option 010)
- Frequency offset measurements (Option 080)
- Gain compression and intermodulation distortion characterization
- X-parameter and nonlinear waveform capability

Typical Applications

- Active device characterization: amplifiers, mixers, frequency converters
- Conversion gain/loss measurements
- True-differential stimulus testing
- Millimeter-wave component evaluation
- Antenna testing
- Pulsed RF device analysis

Compatibility & Integration

The N5244A accepts 2.4 mm male connectors and integrates external components via internal signal-routing switches. Multiple measurement channels (32 to 200) support complex test sequences without reconfiguration.

N5244A Characteristics / Specifications

PARAMETER	VALUE
Model	N5244A
Frequency Range	10 MHz to 43.5 GHz
Frequency Resolution	1 Hz
Frequency Accuracy	plus or minus 1 ppm
High Stability Timebase Stability Class	plus or minus 0.05 ppm -10 C to 70 C class
High Stability Aging Class	plus or minus 0.1 ppm/yr maximum class
Instrument Family	PNA-X Series
Port Options	2-port or 4-port via Option 2xx/4xx
Display	10.4 inch LCD touch screen class PNA family
Internal Storage	solid-state drive class PNA family
Remote Interfaces	USB LAN GPIB class PNA family
Test Port Impedance	50 ohm
Source Architecture	synthesized source stimulus class PNA familySPparameter Test Set: built-in integrated
IF Bandwidth Settings	per PNA firmware / OEM sheet
System Dynamic Range	banded tables in OEM technical specifications option dependent
Receiver Dynamic Range	banded tables in OEM technical specifications option dependent
Test Port Power	banded leveled power tables in OEM tech specs
Operating Temperature Spec Class	25 C plus or minus 5 C for warranted specs unless stated
Warm Up Time Class	90 minutes after turn-on for warranted specs class PNA-L sheets
Form Factor	benchtop PNA
Uncertainty Tool	Keysight NA uncertainty calculator supported
Test Port Connector Class	ruggedized 2.4 mm male
Series Family	Keysight PNA family N522x/N523x/N524x
Bandwidth	Settings: per PNA firmware / OEM sheet

PARAMETER	VALUE
Operating temperature	Spec Class: 25 C plus or minus 5 C for warranted specs unless stated

General Specifications & Supplementary Characteristics

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Form Factor	benchtop PNA
Uncertainty Tool	Keysight NA uncertainty calculator supported
Test Port Connector Class	ruggedized 2.4 mm male
Series Family	Keysight PNA family N522x/N523x/N524x Notes From Keysight PNA Family Microwave Network Analyzers configuration guide and model technical specifications for N5244A. Dynamic-range and power numbers are banded–use OEM tables for the installed option.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list 1 Hz frequency resolution and plus or minus 1 ppm frequency accuracy with 2-port and/or 4-port option architectures.

Applications

S-parameter characterization of RF/microwave components across 10 MHz to 43.5 GHz, calibration with compatible kits, and R&D/production VNA measurements.

Key Features

PNA-X Series integrated VNA architecture

10 MHz to 43.5 GHz frequency coverage

1 Hz frequency resolution

Plus or minus 1 ppm frequency accuracy

2-port or 4-port via Option 2xx/4xx

Technical Specifications

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Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.