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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5244B 43.5 GHz PNA-X Microwave Network Analyzer

Agilent Keysight N5244B PNA-X Network Analyzer The Keysight N5244B isaPNA-X microwave vector network analyzer covering 10 MHz to 43.5 GHz (900 Hz with Option 425 on the related N5245B LFE hardware). OEM N5244B/N5245B technical specifications (synthesizer revision 7) list 1 Hz frequency resolution, ± 0.7 ppm frequency accuracy, and ruggedized 2.4 mm male test ports. Active-device S-parameter, noise-figure, IMD, and mixer measurements to 43.5 GHz on the PNA-X platform. PNA-X dual-source architecture with combiner and mechanical-switch options The Keysight N5244B isaPNA-X microwave vector network analyzer covering 10 MHz to 43.5 GHz (900 Hz with Option 425 on the related N5245B LFE hardware). OEM N5244B/N5245B technical specifications (synthesizer revision 7) list 1 Hz frequency resolution, ± 0.7 ppm frequency accuracy, and ruggedized 2.4 mm male test ports. Active-device S-parameter, noise-figure, IMD, and mixer measurements to 43.5 GHz on the PNA-X platform. PNA-X dual-source architecture with combiner and mechanical-switch options Option 029 high-accuracy noise-figure hardware



MODEL

**Agilent / Keysight
N5244B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5244B

LISTING

<https://aumictechlabs.com/products/n5244b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5244B PNA-X is a 43.5 GHz microwave network analyzer that integrates dual signal sources, test sets, and S-parameter receivers into a single measurement engine. It delivers comprehensive linear and nonlinear device characterization for R&D and manufacturing environments, with configurable 2 or 4-port architecture and advanced error correction for precise S-parameter, noise figure, gain compression, and pulsed-RF measurements.

Technical Specifications
Frequency Range: 900 Hz / 10 MHz to 43.5 GHz
Port Configuration: 2 or 4 ports
Source Output Power: +13 dBm at 1 GHz; +11 dBm at 67 GHz
Dynamic Range: 124 dB (201 points, 1 sweep); 134 dB and 127 dB (at 20 GHz test port)
Measurement Speed: 3.6 to 23 μ sec/point; 4.5 to 26 μ sec/point
Frequency Stability: <0.03 dB/°C to 0.05 dB/°C drift
Trace Noise: 0.002 dB rms at 1 kHz bandwidth
Harmonic Content: <60 dBc source harmonics

Key Features
Dual internal signal sources with signal combiner and flexible RF access architecture
Low receiver noise floor with high receiver compression level
Advanced error correction for accurate linear and nonlinear characterization
Narrowband pulse detection: 30 measurement points within 300 ns pulse; 10 ns timing resolution
Receiver leveling for pulsed-RF power accuracy from ± 1 dB to <0.05 dB
Multi-touch display and intuitive operator interface
Benchtop and rackmount configurations available

Typical Applications
S-parameter measurements (CW and pulsed modes)
Noise figure analysis
Gain compression characterization
Intermodulation and harmonic distortion (IMD)
Pulsed-RF device measurements

Compatibility & Integration
Compatible with Keysight Physical Layer Test System (PLTS) software and associated materials test equipment and accessories.
High-accuracy noise figure measurement options available (e.g., Option 029).

N5244B Characteristics / Specifications

PARAMETER	VALUE
Model	N5244B
Instrument Type	Microwave vector network analyzer
Instrument Family	PNA-X Series
Frequency Range Standard	10 MHz to 43.5 GHz
Frequency Resolution	1 Hz
Frequency Accuracy	±0.7 ppm
Initial Frequency Accuracy	±0.2 ppm specification, ±0.1 ppm typical
Test Port Impedance	50 ohm
Test Port Connector	ruggedized 2.4 mm male
Port Options	2-port Option 201 class or 4-port Option 401 class
Power Resolution	0.01 dB
If Bandwidth For Dynamic Range Tables	10 Hz
Operating Temperature Spec	25 C ±5 C after 90 minutes warm-up
Display	12.1 inch LCD touch screen
Remote Interfaces	USB LAN GPIB
Noise Figure Option	Option 029 requires one of Option 22x or 42x
Source Attenuator Steps	10 dB steps up to 60 dB on N5244/45B class
Receiver Attenuator Steps	5 dB steps up to 35 dB on N5244/45B classSParameter Test Set: built-in integrated with front-panel access loops
Form Factor	benchtop PNA-X
Series Family	Keysight PNA-X N524xB
Warm Up Time	90 minutes after turn-on for warranted specs
Solid State Drive	included
Bandwidth	For Dynamic Range Tables: 10 Hz
Operating temperature	Spec: 25 C ±5 C after 90 minutes warm-up

N5244B Specifications

PARAMETER	VALUE
Applications	Active-device S-parameter, noise-figure, IMD, and mixer measurements to 43.5 GHz on the PNA-X platform.
Ruggedized 2.4 mm male test ports	12.1 inch LCD touch screen
Technical Specifications	Model: N5244B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec: 25 C ±5 C after 90 minutes warm-up
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Solid State Drive	included Notes Numeric rows from Keysight N5244B/45B Technical Specifications 9018-04523 (synthesizer revision 7) and PNA Family configuration guide 5992-1465.

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 (synthesizer revision 7) list 1 Hz frequency resolution, ± 0.7 ppm frequency accuracy, and ruggedized 2.4 mm male test ports.

Applications

Active-device S-parameter, noise-figure, IMD, and mixer measurements to 43.5 GHz on the PNA-X platform.

Key Features

PNA-X dual-source architecture with combiner and mechanical-switch options

Option 029 high-accuracy noise-figure hardware

Ruggedized 2.4 mm male test ports

12.1 inch LCD touch screen

USB LAN GPIB remote IO

Technical Specifications

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Test Port Connector	ruggedized 2.4 mm male
Port Options	2-port Option 201 class or 4-port Option 401 class
Power Resolution	0.01 dB
If Bandwidth For Dynamic Range Tables	10 Hz
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Display	12.1 inch LCD touch screen
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Notes
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Ordering Information

OPTION	DESCRIPTION
Option 425	on the related N5245B LFE hardware). OEM N5244B/N5245B technical specifications (synthesizer revision 7) list 1 Hz frequency resolution, ± 0.7 ppm frequency accu
Option 029	high-accuracy noise-figure hardware
Option 201	class or 4-port Option 401 class

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.