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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5244BM Active device characterization solution up to 43.5 GHz for 5G

Keysight N5244BM Active device characterization solution up to 43.5 GHz for 5G to 43.5 GHz. The Keysight N5244BM isaPNA/PNA-X solution configuration based on the N5244A analyzer. OEM N5244A technical data list 10 MHz to 43.5 GHz coverage, 1 Hz frequency resolution, plus or minus 1 ppm frequency accuracy, 50 ohm test ports, and 2-port or 4-port source/receiver options. Active device characterization solution up to 43.5 GHz for 5G application software and fixtures ride on that VNA hardware. Active device characterization solution up to 43.5 GHz for 5G using a 43.5 GHz PNA/PNA-X with multiport calibration and the published N5244A dynamic-range tables. The Keysight N5244BM isaPNA/PNA-X solution configuration based on the N5244A analyzer. OEM N5244A technical data list 10 MHz to 43.5 GHz coverage, 1 Hz frequency resolution, plus or minus 1 ppm frequency accuracy, 50 ohm test ports, and 2-port or 4-port source/receiver options. Active device characterization solution up to 43.5 GHz for 5G application software and fixtures ride on that VNA hardware. Active device characterization solution up to 43.5 GHz for 5G using a 43.5 GHz PNA/PNA-X with multiport calibration and the published N5244A dynamic-range tables.



MODEL

**Agilent / Keysight
N5244BM**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5244BM

LISTING

<https://aumictechlabs.com/products/n5244bm-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5244BM is an active device characterization solution delivering S-parameter, noise figure, and harmonic measurements up to 43.5 GHz for 5G component validation. Built on the N5244B PNA-X network analyzer, this 4-port system combines industry-standard RF measurement with purpose-built software and calibration accessories for characterizing amplifiers, mixers, and transceivers in demanding 5G applications.

Technical Specifications
Frequency Range: DC to 43.5 GHz Port Configuration: 4-port Dynamic Range: >130 dB S-Parameter Accuracy: <0.004 dB Noise Figure Accuracy: <0.1 dB Harmonic Measurement: <-65 dBc

Key Features The system integrates the N5244B PNA-X analyzer with calibration modules and measurement software. An N4693D 50 GHz ECal module enables fast, traceable calibration across the full frequency range. The U8487A 50 GHz USB power sensor provides independent verification of RF power delivery. A U9391F 50 GHz comb generator supports harmonic and intermodulation measurements. Four N9910X-714 2.4 mm test cables enable connection to DUT ports with minimal transition loss. An N1966A pulse input/output adapter extends measurement capability to pulsed RF environments. Included application software handles instrument control, result analysis, and advanced de-embedding workflows. Multiple specialized options on the N5244B - including 423, 020, 021, 022, and 029 - unlock source/load pull, nonlinear characterization, and pulsed RF measurement modes.

Typical Applications Power amplifier and low-noise amplifier characterization Transceiver front-end validation Mixer linearity and conversion loss assessment 5G component design validation and production test Harmonic distortion measurement in high-power stages

Compatibility & Integration The solution is built on proven Keysight/Agilent PNA-X architecture and supports industry-standard S-parameter file formats. Software modules include S93007B, S93025B, S93029B, S93083B, S93084B, S93086B, S93087B, and S93089B for specialized measurement and analysis workflows. All components interface through standard USB and network connectivity.

N5244BM Characteristics / Specifications

PARAMETER	VALUE
Model	N5244BM
Base Analyzer	N5244A
Instrument Type	PNA/PNA-X solution configuration
Frequency Range	10 MHz to 43.5 GHz
Frequency Resolution	1 Hz
Frequency Accuracy	plus or minus 1 ppm
Test Port Impedance	50 ohm
Test Port Connector	2.4 mm class
Port Options	2 port or 4 port
If Bandwidth	selectable including 10 Hz class on PNA-X
Remote Interfaces	LAN USB GPIB
Form Factor	benchtop PNA/PNA-X
Solution Name	Active device characterization solution up to 43.5 GHz for 5G
Manufacturer	HP Agilent Keysight
Calibration	full 2-port or multiport TRL/SOLT as licensed
Dynamic Range	banded tables on the base analyzer OEM sheet
Source Architecture	single or dual source by option
Operating System	PNA Windows embedded UI
Minimum Frequency	10 MHz
Maximum Frequency	43.5 GHz
Application Software	Active device characterization solution up to 43.5 GHz for 5G
System Family	Keysight PNA / PNA-X
Mains	100 to 240 VAC
Documentation	Keysight N5244A technical specifications applied to N5244BM
Bandwidth	selectable including 10 Hz class on PNA-X

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.

technical data list 10 MHz to 43.5 GHz coverage, 1 Hz frequency resolution, plus or minus 1 ppm frequency accuracy, 50 ohm test ports, and 2-port or 4-port source/receiver options. Active device characterization solution up to 43.5 GHz for 5G application software and fixtures ride on that VNA hardware.

Applications
Active device characterization solution up to 43.5 GHz for 5G using a 43.5 GHz PNA/PNA-X with multiport calibration and the published N5244A dynamic-range tables.

Key Features
Based on N5244A 43.5 GHz VNA
1 Hz frequency resolution
2-port or 4-port configurations
50 ohm coaxial test ports
Active device characterization solution up to 43.5 GHz for 5G

Technical Specifications

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Documentation	Keysight N5244A technical specifications applied to N5244BM

Notes
From Keysight N5244A PNA/PNA-X technical specifications applied to solution SKU N5244BM (Active device characterization solution up to 43.5 GHz for 5G). Dynamic-range and power tables remain those of the installed N5244A hardware options.

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.