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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5247A PNA-X Microwave Network Analyzer 10 MHz to 67 GHz

Agilent Keysight N5247A PNA-X Network Analyzer 67 GHz The Keysight N5247A isaPNA-X Series microwave vector network analyzer covering 10 MHz to 67 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 67 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 N5247A isaPNA-X Series microwave vector network analyzer covering 10 MHz to 67 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 67 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
N5247A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5247A

LISTING

<https://aumictechlabs.com/products/n5247a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight N5247A PNA-X is a microwave network analyzer spanning 10 MHz to 67 GHz, integrating signal source, test set, and analyzer into a single platform. It delivers 140 dB dynamic range at 10 GHz and 115 dB at 67 GHz, with trace noise of 0.001 dB RMS at 10 GHz and 0.004 dB RMS at 67 GHz. The instrument supports up to 16 independent measurement channels and 16 traces per channel, enabling S-parameters, gain compression, large-signal S-parameters, nonlinear transfer functions, intermodulation distortion, harmonic and spurious measurements, noise figure analysis, and time domain characterization.

Technical Specifications

Frequency Range: 10 MHz to 67 GHz

Dynamic Range: 140 dB at 10 GHz; 115 dB at 67 GHz

Output Power: +15 dBm at 10 GHz; +7 dBm at 67 GHz (typical); adjustable from -130 dBm to +15 dBm

Trace Noise: 0.001 dB RMS at 10 GHz; 0.004 dB RMS at 67 GHz

Measurement Speed: 45 μ s per point at 201 points; 450 μ s for full 2-port measurement (101 points, 2–901.2 GHz, 1 sweep)

IF Bandwidth: 1 Hz to 10 MHz (selectable)

Channels: Up to 16 independent measurement channels

Traces: Up to 16 per channel

Sweep Types: List, logarithmic, linear, power, phase, group delay, differential group delay, temperature, and advanced sweep types

Calibration Methods: SOLT, TRL, Response, Custom Sources

Two independent sources with AM, FM, and pulse modulation capabilities

Key Features

- Configurable test set with internal/external bridge options
- Logarithmic and linear detector characteristics
- Scalar and vector modulation analysis
- Low measurement uncertainty with high repeatability
- Gigabit Ethernet, GPIB, and external trigger/reference clock I/O
- High-resolution color display with jog shuttle control

Typical Applications

RF and microwave component characterization, active and passive device validation, nonlinear circuit analysis, and system integration testing.

Compatibility & Integration

LAN (Gigabit Ethernet), GPIB, USB ports, external trigger input/output, and reference clock connectivity support laboratory and remote measurement environments.

N5247A Characteristics / Specifications

PARAMETER	VALUE
Model	N5247A
Frequency Range	10 MHz to 67 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 1.85 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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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 1.85 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 N5247A. 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 67 GHz, calibration with compatible kits, and R&D/production VNA measurements.

Key Features

PNA-X Series integrated VNA architecture

10 MHz to 67 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

Technical Specifications

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Notes

From Keysight PNA Family Microwave Network Analyzers configuration guide and model technical specifications for N5247A. Dynamic-range and power numbers are banded-use OEM tables for the installed option.

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 ·
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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.