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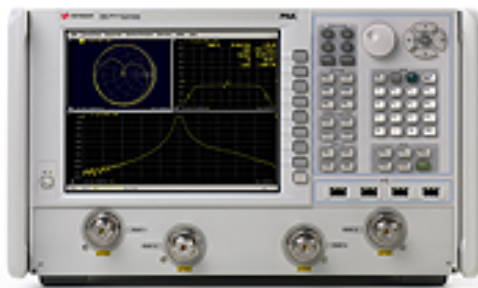
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight N5222A 26.5 GHz PNA Microwave Network Analyzer

Agilent N5222A PNA Microwave Network Analyzer The Agilent N5222A isaPNA series microwave vector network analyzer for high-performance S-parameter and advanced measurement applications. OEM PNA documentation lists multi-GHz microwave coverage with high dynamic range, low trace noise, and flexible source/receiver architecture for R&D and metrology-grade device characterization. Microwave component and subsystem S-parameter characterization, amplifier and mixer measurements with advanced PNA applications, and high-dynamic-range R&D network analysis. The Agilent N5222A isaPNA series microwave vector network analyzer for high-performance S-parameter and advanced measurement applications. OEM PNA documentation lists multi-GHz microwave coverage with high dynamic range, low trace noise, and flexible source/receiver architecture for R&D and metrology-grade device characterization. Microwave component and subsystem S-parameter characterization, amplifier and mixer measurements with advanced PNA applications, and high-dynamic-range R&D network analysis.



MODEL

**Agilent / Keysight
N5222A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5222A

LISTING

<https://aumictechlabs.com/products/n5222a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N5222A is a 26.5 GHz PNA microwave network analyzer built for precision characterization of components and systems across R&D and manufacturing environments. Operating from 10 MHz to 26.5 GHz, this benchtop instrument delivers 127 dB dynamic range at the test port and achieves trace noise of 0.002 dBrms for reliable measurement accuracy. The analyzer supports 2 or 4-port configurations with dual-source capability, 32 measurement channels, and up to 32,001 data points per sweep. It executes 201-point sweeps in 6.3 ms, making it suitable for high-throughput testing. The 10.4 inch color touchscreen provides intuitive control and real-time waveform display.

Technical Specifications

Frequency Range: 10 MHz to 26.5 GHz
Ports: 2 or 4 configurable
Output Power: +13 dBm typical; +10 dBm receiver-leveled; 38 dB power sweep range
Dynamic Range: 127 dB (test port, >500 MHz typical); 131 dB receiver; 127 dBm maximum
Noise Floor: -114 dBm (10 Hz IF bandwidth)
Trace Noise: 0.002 dBrms
Measurement Speed: 6.3 ms (201 points, 1 sweep)
Data Points: Up to 32,001
Channels: 32
IF Bandwidth: 10 Hz
Harmonics: -21 dBc
RF Connector: 3.5 mm male
Display: 10.4 inch XGA color LCD, touch-enabled
Weight: 50 lbs

Key Features

Receiver compression range: -5 dBm (legacy) to +12 dBm (new PNA)
Extended dynamic range at direct access input
Advanced error correction for system accuracy
Handler I/O integration for automated test environments

Typical Applications

Time domain analysis
Pulsed RF measurements
Frequency offset characterization
Vector and scalar calibrated converter measurements
Intermodulation distortion testing
Automatic fixture removal

Compatibility & Integration

Code compatible with E-series PNA analyzers
Connectivity: 4× USB 2.0 (front), VGA video, LAN, GPIB, USB, rear peripheral ports
Optional configurations: 2-port single source with extended power range and bias-tees (Option 210); 4-port dual source with extended power range (Option 410)

N5222A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Agilent N5222A PNA network analyzer
Measurement Type	S parameter and advanced PNA applications
Frequency Coverage Class	Microwave PNA band by option
Port Count Class	2 port PNA test set class
Dynamic Range Class	High dynamic range PNA receivers
Trace Noise Class	Low trace noise PNA architecture
IF Bandwidth Selections	Wide IFBW range for speed vs dynamic range
Calibration Support	Full multiport capable calibration engine
Source Power Control	Wide leveled power control class
Display	Embedded PNA Windows style UI
Remote Interfaces	LAN GPIB
Sweep Modes	Linear segment and power sweep class
Connector Class	Precision microwave test ports by option
Form Factor	PNA modular benchtop chassis
Application Suite	Noise figure IMD pulsed and mixer class apps
Upgrade Path	Hardware and software option upgradeable
Impedance	50 ohms nominal
Operating Temperature Class	Standard lab environment
Series Family	Agilent PNA N522x
Metrology Role	High performanceRandDnetwork analysis
Receiver Architecture	Multiple independent receivers class
Pulsed Measurement Path	Available with options
Bandwidth	Selections: Wide IFBW range for speed vs dynamic range
Operating temperature	Class: Standard lab environment

General Specifications & Supplementary Characteristics

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Operating temperature	Class: Standard lab environment
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Series Family	Agilent PNA N522x
Metrology Role	High performanceRandDnetwork analysis
Receiver Architecture	Multiple independent receivers class
Pulsed Measurement Path	Available with options Notes From Agilent/Keysight N5222A PNA family documentation. Exact start/stop frequency and connector type are option-specific; use the installed option list with OEM PNA configuration tables.

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.

performance S-parameter and advanced measurement applications. OEM PNA documentation lists multi-GHz microwave coverage with high dynamic range, low trace noise, and flexible source/receiver architecture for R&D and metrology-grade device characterization.

Applications

Microwave component and subsystem S-parameter characterization, amplifier and mixer measurements with advanced PNA applications, and high-dynamic-range R&D network analysis.

Key Features

PNA high performance microwave architecture

Advanced application measurement suite path

High dynamic range receivers

Flexible source power control

LAN GPIB remote automation

Technical Specifications

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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

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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.