

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

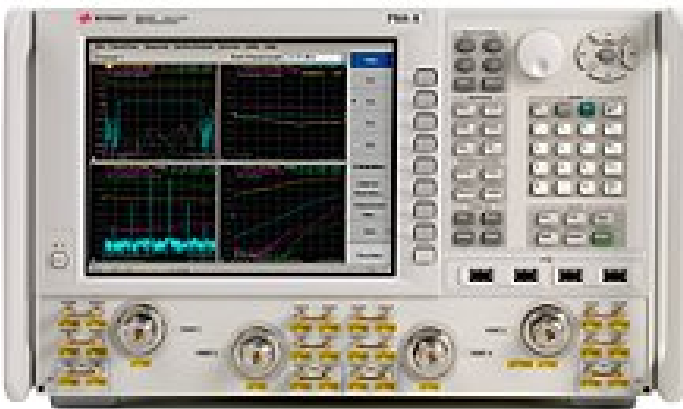
Data Sheet

August 14, 2026

AGILENT

Agilent N5245A 50 GHz PNA-X Microwave Network Analyzer

Agilent N5245A PNA-X Microwave Network Analyzer The Agilent N5245A isaPNA-X series microwave network analyzer covering 10 MHz to 50 GHz class with integrated pulsed RF, frequency converter, and nonlinear measurement option paths. OEM PNA-X materials highlight wide dynamic range, dual sources on selected configurations, and advanced application software. Active device characterization, mixer converter tests, pulsed RF radar component measurements, and nonlinear measurement applications to 50 GHz. Internal second source on selected configs The Agilent N5245A isaPNA-X series microwave network analyzer covering 10 MHz to 50 GHz class with integrated pulsed RF, frequency converter, and nonlinear measurement option paths. OEM PNA-X materials highlight wide dynamic range, dual sources on selected configurations, and advanced application software. Active device characterization, mixer converter tests, pulsed RF radar component measurements, and nonlinear measurement applications to 50 GHz. Internal second source on selected configs Instrument Type: microwave vector network analyzer



MODEL

Agilent N5245A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5245A

LISTING

<https://aumictechlabs.com/products/n5245a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent N5245A is a 50 GHz PNA-X microwave network analyzer designed for precision characterization of RF and microwave devices across 10 MHz to 50 GHz. It consolidates multiple test instruments into a single platform, reducing measurement time and station complexity. The instrument delivers 126 dB system dynamic range and 129 dB receiver dynamic range, supporting both 2-port and 4-port configurations with dual internal sources. Advanced measurement modes include S-parameters (CW and pulsed), noise figure, gain compression, intermodulation distortion, X-parameter characterization, and pulsed-RF analysis with narrowband detection that improves dynamic range by 40 dB for pulses narrower than 267 ns.

Technical Specifications
Frequency Range: 10 MHz to 50 GHz Port Configurations: 2-port and 4-port available System Dynamic Range: 126 dB Receiver Dynamic Range: 129 dB Direct Access Input Dynamic Range: 124 dBm Output Power: +16 dBm (high); +13 dBm (maximum) Power Sweep Range: 41 dB Harmonics: -60 dBc Noise Floor: -111 dBm at 10 Hz IF bandwidth IF Bandwidth: 15 MHz and 5 MHz selectable Measurement Points: 32,001 maximum Channels: 200 or 32 channel configurations Dynamic Accuracy: 0.1 dB compression at +15 dBm input; <0.05 dB with pulsed-RF receiver leveling Weight: 50 lbs

Key Features Dual built-in sources with internal second source, combiner, and mechanical switches (Option 224) Option H85 removes bias tees, extending maximum port input power to +43 dBm Narrowband detection for pulsed measurements yields 40 dB dynamic range improvement versus conventional PNA systems Extended dynamic range at direct access input Vector and scalar calibrated converter measurements (Option 083) Time domain measurements (Option 010)

Typical Applications Nonlinear characterization and X-parameter measurement Pulsed S-parameters, gain compression, and swept-frequency intermodulation distortion Conversion gain/loss analysis True-differential stimulus testing Antenna characterization Millimeter-wave measurements with appropriate modules

Compatibility & Integration USB interfaces for remote control and data transfer 50 ohm ruggedized test port connectors

N5245A Characteristics / Specifications

PARAMETER	VALUE
Frequency Range Class	10 MHz to 50 GHz
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA-X N5245A
Maximum Frequency Class	50 GHz
System Dynamic Range Class	high PNA-X dynamic range class
IF Bandwidth Settings	selectable including 10 Hz class
Number Of Ports Options	2 port or 4 port configurations
Internal Sources Class	one or two sources by configuration
Pulsed RF Capability	available as option
Noise Figure Application	available as option
Frequency Converter Application	available as option
Test Port Impedance	50 ohms nominal
Test Port Connector Class	2.4 mm class on 50 GHz
Calibration Support	full multiport and TRL class
Display And UI	PNA-X Windows interface
Upgrade Path	application and hardware option upgradeable
IMD Application Option	available
True Mode Stimulus Option	available class
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class
Bandwidth	Settings: selectable including 10 Hz class

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
Operating Temperature	Class: standard laboratory class
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes From Agilent/Keysight N5245A PNA-X product documentation. Confirm installed frequency ports and application options for exact warranted 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.

Specifications	
Specifications	
PARAMETER	VALUE
Frequency Range Class	10 MHz to 50 GHz
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA-X N5245A
Maximum Frequency Class	50 GHz
System Dynamic Range Class	high PNA-X dynamic range class
IF Bandwidth Settings	selectable including 10 Hz class
Number Of Ports Options	2 port or 4 port configurations
Internal Sources Class	one or two sources by configuration
Pulsed RF Capability	available as option
Noise Figure Application	available as option
Frequency Converter Application	available as option
Test Port Impedance	50 ohms nominal
Test Port Connector Class	2.4 mm class on 50 GHz
Calibration Support	full multiport and TRL class
Display And UI	PNA-X Windows interface
Upgrade Path	application and hardware option upgradeable
IMD Application Option	available
True Mode Stimulus Option	available class
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class

Notes

From Agilent/Keysight N5245A PNA-X product documentation. Confirm installed frequency ports and application options for exact warranted tables.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.