

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5232A

The Keysight (formerly Agilent) N5232A is a mid-range PNA-L Series microwave vector network analyzer covering 300 kHz to 20 GHz. Designed for passive component analysis and simple active device measurements, it offers high-value manufacturing and design capabilities with up to 133 dB dynamic range, fast sweep speeds, and up to 4 test ports.

SPECIFICATIONS

General

Interfaces	USB, LAN, GPIB
Display	10.4-inch XGA color touchscreen LCD

Physical

Operating Temperature	0 to 40 °C
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System Characteristics

Number of Ports	2 or 4 (configuration dependent)
System Impedance	50 Ω
Supported Test Port Connectors	3.5 mm (male)
Architecture	Vector Network Analyzer

Frequency Characteristics

Frequency Range	300 kHz to 20 GHz
Frequency Resolution	1 Hz

Sweep and Measurement Speed

Number of Data Points (Max)	100,001
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Calibration and Error Correction

Electronic Calibration (ECal) Support	Yes
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Data Processing and Display

Display Resolution	1024 x 768 (XGA)
Measurement Parameters	S-parameters (S11, S21, S12, S22, up to S44)

Connectivity and Interfaces

Front Panel USB Ports	Yes
Rear Panel USB Ports	Yes
GPIB Interface	Yes
LAN Interface	Yes
External Reference Input (10 MHz)	Yes
External Trigger Input	Yes

Receiver

Minimum IF Bandwidth	1 Hz
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Signal Source

Power Setting Resolution	0.01 dB
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Measurement Capabilities

Sweep Types	Linear frequency, CW frequency, power sweep, segment sweep
Trigger Modes	Internal, External, Manual
Calibration Types	SOLT, SOLR, TRL, LRM, Unknown Thru, ECal

Configuration Options

Available Port Configurations	2-port (Options 200/216) or 4-port (Options 400/416)
Configurable Test Set / Attenuators	Included with Options 216 and 416

Software Options

Time Domain Capability	Available via Option 010
Frequency Offset Mode	Available via Option 080

Test Ports

Maximum Test Port Input Power (Damage)	+27 dBm
Maximum Test Port DC Voltage	40 VDC

Compliance

LXI Compliance	LXI Class C
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Environmental

Storage Temperature Range	-40 °C to +70 °C
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TECHNOLOGY

Vector Network Analyzer (VNA)

APPLICATIONS

Passive components and simple active device measurements of amplifiers and frequency converters

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.