

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5222B

The Keysight N5222B is a high-performance PNA Microwave Network Analyzer offering leading measurement accuracy and speed. Designed for complex active and passive device testing, it features an upper frequency limit of 26.5 GHz and is highly configurable with 2-port or 4-port options, internal signal routing, and advanced measurement software.

SPECIFICATIONS

General

Display	12.1-inch capacitive multi-touch TFT color LCD (1280 x 800)
Data Storage	Removable Solid State Drive (SSD) on rear panel

Frequency Specifications

Frequency Resolution	1 Hz
Number of Points per Sweep	1 to 100,001

Source Specifications

Power Level Resolution	0.01 dB
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Test Ports

Number of Ports	2 or 4 ports (configuration dependent)
Port Connector Type	3.5 mm (male)
Port Impedance	50 ohms
Damage DC Voltage	40 VDC

Connectivity & Interfaces

LAN Interface	10/100/1000 Base-T Ethernet
10 MHz Reference Input	BNC (female)
10 MHz Reference Output	BNC (female)

Software & Control

Operating System	Windows 10
Internal Storage Capacity	Removable Solid State Drive (SSD)

Configuration Options

Available Test Set Options (2-Port)	Option 200 (Base), Option 201 (Configurable test set), Option 219 (Configurable test set, extended power, bias tees)
Available Test Set Options (4-Port)	Option 400 (Base), Option 401 (Configurable test set), Option 419 (Configurable test set, extended power, bias tees)

Measurement

Sweep Types	Linear frequency, Logarithmic frequency, CW, Power, Segmented
Measurement Parameters	S-parameters, absolute power, ratioed power
Display Formats	Log magnitude, Linear magnitude, Phase, Unwrapped phase, Group delay, Smith chart, Polar, SWR, Real, Imaginary
Supported Calibration Types	SOLT, TRL, LRM, Unknown Thru, ECal
Magnitude Reference Level Range	± 500 dB
Magnitude Reference Level Resolution	0.001 dB
Phase Reference Level Range	± 500°
Phase Reference Level Resolution	0.01°

Physical & UI

Screen Type	12.1-inch WXGA (1280 x 800) multi-touch screen
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Inputs & Outputs

Bias Tee Inputs	BNC (female), rear panel (requires Option 219 or 419)
Maximum Bias Tee Voltage	± 40 VDC
Maximum Bias Tee Current	± 500 mA

Display

Display Size	12.1 inch
Display Resolution	1280 x 800 pixels

Connectivity

Video Output	DisplayPort (rear panel)
GPIB Interface	IEEE-488.2 compatible (rear panel)

TECHNOLOGY

Vector Network Analysis (VNA)

APPLICATIONS

Active and passive microwave component testing, S-parameter measurements, material measurements, and signal integrity analysis

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