

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N5227B

The Keysight N5227B is a high-performance PNA series Vector Network Analyzer designed for microwave measurements from 10 MHz to 67 GHz. It provides exceptional dynamic range, trace noise, and stability, making it the industry standard for testing active and passive devices like filters, amplifiers, mixers, and frequency converters. Featuring Windows 10 and a modern 12.1-inch touchscreen display, the N5227B seamlessly integrates into advanced research and manufacturing setups.

SPECIFICATIONS

General

Display	12.1-inch WXGA color capacitive touchscreen LCD (1280 x 800 resolution)
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RF Performance

Number of Ports	2 or 4 ports (configuration dependent)
Test Port Connector Type	1.85 mm male (50 Ω nominal)
Frequency Resolution	1 Hz

Measurement Capabilities & Features

Number of Measurement Points per Sweep	1 to 100,003
Data Formats	Log magnitude, Phase, Group delay, Linear magnitude, SWR, Real, Imaginary, Polar, Smith chart

System Hardware & Connectivity

Operating System	Windows 10
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General Specifications

Warm-up Time	90 minutes
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Signal Source

Number of Internal Sources	1 (for 2-port configurations) or 2 (for 4-port configurations)
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Interfaces

LAN Interface	10/100/1000 Base-T (Gigabit Ethernet), RJ-45
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Options

Noise Figure Frequency Range	10 MHz to 67 GHz (requires Option 029)
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Power Requirements

AC Input Voltage Range	100 V to 240 V AC
AC Input Frequency Range	50/60 Hz (100 to 240 V AC) / 400 Hz (100 to 120 V AC)

System Details

Storage Drive Type	Removable Solid State Drive (SSD)
Storage Drive Capacity	≥ 240 GB

Display & User Interface

Display Resolution	1280 × 800 (WXGA)
Display Size	12.1 in (30.7 cm) diagonal
Display Type	Color LCD touch screen

Inputs & Outputs

GPIB Interface Capability	Controller / Talker / Listener
LAN Port Speed	10/100/1000 Base-T
LAN Port Connector	RJ-45
Reference I/O Connector Type	BNC female
External Trigger Connector Type	BNC female
Front Panel USB Speed	USB 2.0
Rear Panel USB Speed	USB 3.0 and USB 2.0

TECHNOLOGY

Vector Network Analysis

APPLICATIONS

Microwave Component Testing, Mixer and Converter Measurements, Signal Integrity, Antenna Characterization

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