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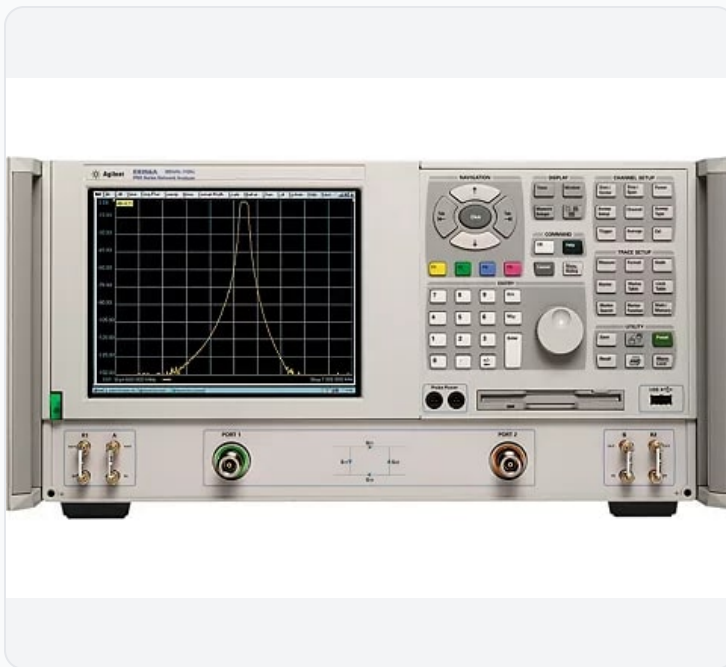
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8364B 50GHz PNA Network Analyzer

Agilent E8364B PNA Microwave Network Analyzer The Agilent E8364B isaPNA series microwave vector network analyzer covering 10 MHz to 50 GHz. OEM PNA E8362/3/4B technical specifications list system dynamic range to 123 dB from 10 to 20 GHz in standard configuration at 10 Hz IFBW, with higher receiver access dynamic range on Option 014 configurable test sets. Microwave component S-parameter characterization, mixer and amplifier tests with frequency offset options, and high dynamic range network analysis to 50 GHz. The Agilent E8364B isaPNA series microwave vector network analyzer covering 10 MHz to 50 GHz. OEM PNA E8362/3/4B technical specifications list system dynamic range to 123 dB from 10 to 20 GHz in standard configuration at 10 Hz IFBW, with higher receiver access dynamic range on Option 014 configurable test sets. Microwave component S-parameter characterization, mixer and amplifier tests with frequency offset options, and high dynamic range network analysis to 50 GHz. Time domain and frequency converter options



MODEL

**Agilent / Keysight
E8364B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8364B

LISTING

<https://aumictechlabs.com/products/e8364b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E8364B is a 50 GHz PNA network analyzer engineered for high-frequency component and system characterization. It delivers S-parameter, time-domain, and power measurements with exceptional speed and dynamic range, supporting up to 32 independent measurement channels with 16,001 points per channel. Measurement speed reaches less than 26 microseconds per point, while trace noise remains below 0.006 dB at 1 kHz IFBW. The analyzer extends to 110 GHz with external test heads and operates from a 10 MHz base frequency. Its 8.4-inch color LCD display accommodates up to 16 windows with 4 traces per window and 10 markers per trace.

Technical Specifications

Frequency Range: 10 MHz to 50 GHz (extendable to 110 GHz with external test heads)
Dynamic Range: 125 dB at 20 GHz; 104 dB at 50 GHz
Output Power: 10 dBm maximum
Measurement Speed: Less than 26 microseconds per point
Trace Noise: Less than 0.006 dB (1 kHz IFBW)
IF Bandwidth: 1 Hz to 40 kHz nominal; 10 Hz standard; 1 kHz trace noise setting
Data Capacity: Up to 16,001 points per channel; 32 independent measurement channels
RF Connectors: 3.5 mm male, 50 Ω
Display: 8.4-inch color LCD, 640 $\times$ 480 resolution; 16 windows maximum; 4 traces per window; 10 markers per trace
Processing: Intel 1.1 GHz Pentium M; 1 GB RAM
Power Supply: 50/60/400 Hz (100–120 V); 50/60 Hz (220–240 V); auto-switching
Power Consumption: 350 W
Weight: 29 kg

Key Features

Comprehensive calibration support: TRM/LRM for on-wafer, in-fixture, and waveguide measurements
Advanced calibration options: guided calibration, electronic calibration (ECal), vector-mixer calibration (VMC), scalar-mixer calibration (SMC), adapter removal, unknown thru, data-based standards
Pulsed-RF and power measurements for linear and nonlinear characterization
Mixer measurements including conversion loss, return loss, isolation, and absolute group delay
Frequency-offset capability for mixer and amplifier analysis
Time-domain analysis available as Option 010

Typical Applications

On-wafer and in-fixture component measurement
High-power amplifier characterization
Gain compression and harmonic analysis
Intermodulation distortion (IMD) testing
Waveguide component evaluation
Mixer and frequency converter analysis

E8364B Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	10 MHz to 50 GHz
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA E836xB
System Dynamic Range 10 To 45 MHz Standard	79 dB typical
System Dynamic Range 45 To 500 MHz Standard	94 dB
System Dynamic Range 500 MHz To 2 GHz Standard	119 dB
System Dynamic Range 2 To 10 GHz Standard	122 dB
System Dynamic Range 10 To 20 GHz Standard	123 dB
System Dynamic Range 20 To 30 GHz Standard	114 dB
System Dynamic Range 30 To 40 GHz Standard	110 dB
System Dynamic Range 40 To 45 GHz Standard	109 dB
System Dynamic Range 45 To 50 GHz Standard	104 dB
IF Bandwidth For Specs	10 Hz
Configurable Test Set Option	Option 014
Extended Power Bias Tee Option	Option UNL
Frequency Reference Aging Typical	plus or minus 0.2 ppm per year typical
Test Port Connector Class	2.4 mm male class
Number Of Ports	2 port PNA base
Calibration Support	full 2 port TRL LRM SOLT class
Remote Interfaces	LAN GPIB

PARAMETER	VALUE
Form Factor	benchtop PNA
Operating Spec Condition	10 Hz IFBW no averaging isolation cal factor 8
Bandwidth	For Specs: 10 Hz

E8364B Specifications

PARAMETER	VALUE
Agilent E8364B PNA Microwave Network Analyzer	Overview
PNA Windows based measurement platform	Configurable test set Option 014 path
Technical Specifications	Frequency Range: 10 MHz to 50 GHz

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 list system dynamic range to 123 dB from 10 to 20 GHz in standard configuration at 10 Hz IFBW, with higher receiver access dynamic range on Option 014 configurable test sets.

Applications

Microwave component S-parameter characterization, mixer and amplifier tests with frequency offset options, and high dynamic rangeRandnnetwork analysis to 50 GHz.

Key Features

PNA Windows based measurement platform

Configurable test set Option 014 path

Extended power and bias tee Option UNL

Time domain and frequency converter options

LAN GPIB remote automation

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Frequency Range	10 MHz to 50 GHz
Instrument Type	microwave vector network analyzer
Series Family	Agilent PNA E836xB

System Dynamic Range 10 To 45 MHz Standard: 79 dB typical

System Dynamic Range 45 To 500 MHz Standard: 94 dB

System Dynamic Range 500 MHz To 2 GHz Standard: 119 dB

System Dynamic Range 2 To 10 GHz Standard: 122 dB

System Dynamic Range 10 To 20 GHz Standard: 123 dB

System Dynamic Range 20 To 30 GHz Standard: 114 dB

System Dynamic Range 30 To 40 GHz Standard: 110 dB

System Dynamic Range 40 To 45 GHz Standard: 109 dB

System Dynamic Range 45 To 50 GHz Standard: 104 dB

Specifications

PARAMETER	VALUE
IF Bandwidth For Specs	10 Hz
Configurable Test Set Option	Option 014
Extended Power Bias Tee Option	Option UNL
Frequency Reference Aging Typical	plus or minus 0.2 ppm per year typical
Test Port Connector Class	2.4 mm male class
Number Of Ports	2 port PNA base
Calibration Support	full 2 port TRL LRM SOLT class
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Form Factor	benchtop PNA

PARAMETER	VALUE
Operating Spec Condition	10 Hz IFBW no averaging isolation cal factor 8

Notes

Dynamic range rows from Agilent/Keysight PNA Series E8362/3/4B technical specifications at 10 Hz IFBW. Rows above the model maximum frequency apply only on higher-band siblings; confirm installed options for UNL and 014.

Ordering Information

OPTION	DESCRIPTION
Option 014	configurable test sets.

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

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30-day returns
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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.