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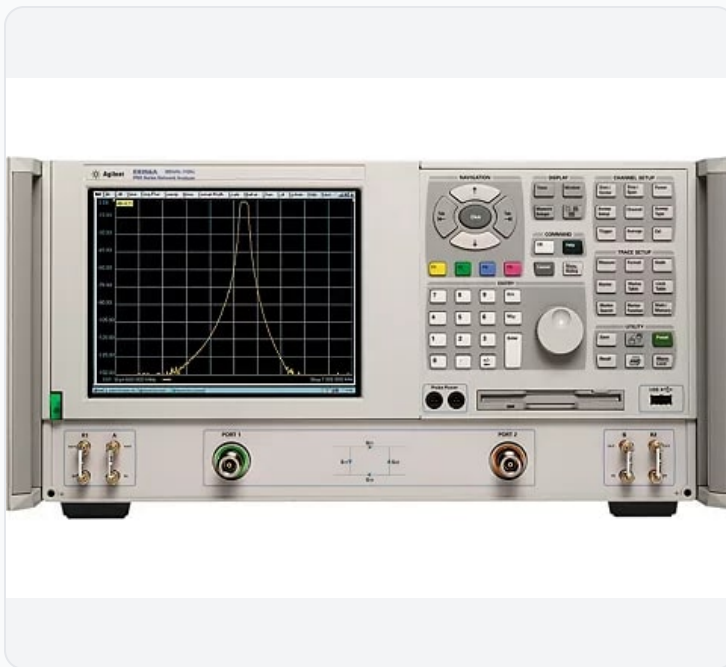
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8363B 40GHz PNA Network Analyzer

Agilent E8363B PNA Microwave Network Analyzer The Agilent E8363B isaPNA series microwave vector network analyzer covering 10 MHz to 40 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 40 GHz. The Agilent E8363B isaPNA series microwave vector network analyzer covering 10 MHz to 40 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 40 GHz. Time domain and frequency converter options



MODEL

**Agilent / Keysight
E8363B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8363B

LISTING

<https://aumictechlabs.com/products/e8363b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E8363B is a 40 GHz PNA Network Analyzer delivering high-precision RF and microwave measurements from 10 MHz to 40 GHz. Built for R&D, manufacturing, and quality assurance, it characterizes passive and active components with 110 dB dynamic range, sub-0.006 dB trace noise, and measurement speeds under 26 microseconds per data point. The instrument supports 32 independent measurement channels with up to 16,001 data points per channel, enabling detailed signal integrity and network analysis across demanding test scenarios.

Technical Specifications

Frequency Range: 10 MHz to 40 GHz
Dynamic Range: 110 dB (up to 125 dB with certain configurations)
Trace Noise: <0.006 dB
Measurement Speed: <26 microseconds per data point
Data Points per Channel: 16,001
Measurement Channels: 32 independent channels
Output Power: Maximum 10 dBm; SOURCE OUT maximum 20 dBm; optimum receiver level -12 dBm
IF Bandwidth: 1 Hz to 40 kHz nominal; 10 Hz for corrected system performance
Display: 8.4-inch color LCD, 640 × 480 resolution; 16 windows maximum; 4 traces per window
Markers: 10 coupled or independent markers per trace; 0.001 dB magnitude resolution

Key Features

Comprehensive calibration methods: TRL/LRM, on-wafer, in-fixture, waveguide, antenna, guided, and electronic calibration (ECal) with optional user characterization
Adapter removal and unknown thru calibration support
Vector-mixer and scalar-mixer calibration (VMC/SMC)
Segmented sweep modes for optimized test efficiency
Extended power control with test port level down to -65 dBm
Option UNL for extended power range and bias tees

Typical Applications

Mixer characterization: conversion loss, return loss, isolation, absolute group delay
Amplifier testing: gain compression, harmonics, IMD, pulsed-RF measurements
Frequency converter analysis (Option 082/083)
Time domain analysis

Compatibility & Integration

Interfaces: USB, GPIB, LAN, Serial, Parallel

E8363B Characteristics / Specifications

PARAMETER	VALUE
Frequency Range	10 MHz to 40 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

E8363B Specifications

PARAMETER	VALUE
Agilent E8363B PNA Microwave Network Analyzer	Overview
PNA Windows based measurement platform	Configurable test set Option 014 path
Technical Specifications	Frequency Range: 10 MHz to 40 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 40 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 40 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
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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

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

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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.