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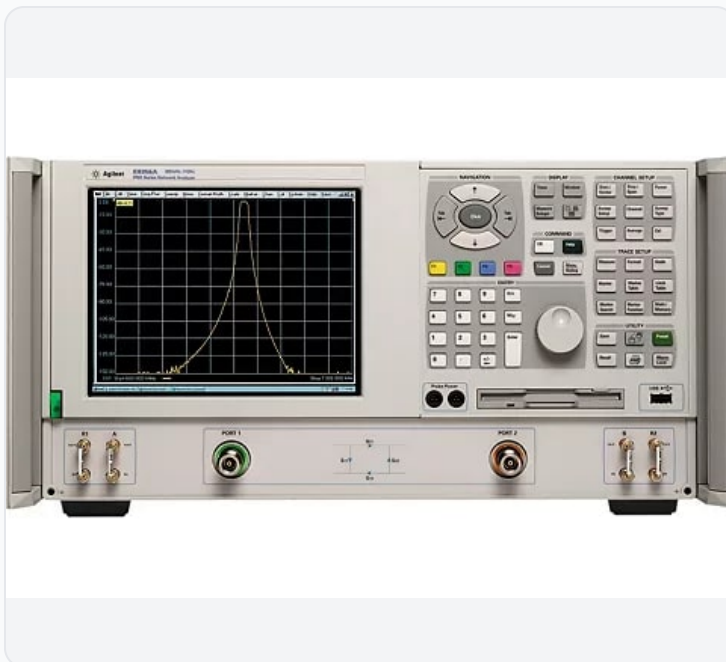
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8364A 50 GHz PNA Series Network Analyzer

Agilent / Keysight E8364A PNA Microwave Network Analyzer 45 MHz to 50 GHz The Agilent E8364A isaPNA Series microwave vector network analyzer covering 45 MHz to 50 GHz. OEM PNA microwave data sheets for the E836xA family list standard-configuration system dynamic range reaching 123 dB from 10 to 20 GHz in 10 Hz IFBW at the test port, frequency resolution of 1 Hz, and CW accuracy of plus or minus 1 ppm. Broadband microwave S-parameter test, filter rejection, amplifier characterization, and production VNA measurements across the model frequency span. The Agilent E8364A isaPNA Series microwave vector network analyzer covering 45 MHz to 50 GHz. OEM PNA microwave data sheets for the E836xA family list standard-configuration system dynamic range reaching 123 dB from 10 to 20 GHz in 10 Hz IFBW at the test port, frequency resolution of 1 Hz, and CW accuracy of plus or minus 1 ppm. Broadband microwave S-parameter test, filter rejection, amplifier characterization, and production VNA measurements across the model frequency span. PNA Windows-based multi-channel architecture



MODEL

**Agilent / Keysight
E8364A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8364A

LISTING

<https://aumictechlabs.com/products/e8364a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8364A PNA Series Network Analyzer is a instrument for precise RF and microwave device characterization across 45 MHz to 50 GHz. Built for demanding R&D and manufacturing environments, it delivers fast sweep speeds, exceptional dynamic range, and low trace noise for comprehensive S-parameter, impedance, and time-domain measurements. The analyzer supports sixteen independent measurement channels with sweep rates below 26 μ s/point and offers TRL/LRM calibration for waveguide, on-wafer, and in-fixture devices.

Technical Specifications
Frequency Range: 45 MHz to 50 GHz
Dynamic Range: 123 dB at test port; 138 dB with direct receiver access; 104 dB at test port at 50 GHz
Sweep Speed: Less than 26 μ s/point
Maximum Output Power: 10 dBm
Measurement Channels: Sixteen independent channels
Memory: 256 MB RAM with built-in hard drive storage
Test Port Connectors: 3.5 mm (m), 50 ohm
Physical: 26 × 24 × 18 in; 50 lbs

Key Features
Fast sweep speeds and low trace noise enable efficient device characterization
Wide dynamic range accommodates passive and active component testing
TRL/LRM calibration support for complex measurement environments
Sixteen measurement channels support multi-port and multi-parameter analysis
Optional source attenuators, bias-tees, and direct receiver access for extended capability
Ruggedized 3.5 mm connectors rated for 50 ohm impedance

Typical Applications
S-parameter characterization of RF and microwave components
Time-domain and frequency-offset measurements
Scalar-calibrated converter measurements
N-port network analysis
On-wafer and in-fixture device testing

Compatibility & Integration
COM/DCOM and SCPI programming interfaces
USB and LAN connectivity for data transfer and remote control
Compatible with 45 MHz to 50 GHz calibration kits (e.g., 85057B 2.4 mm)
Optional time-domain, frequency-offset, and N-port measurement packages
AgileUpdate feature enables access to new functionality

E8364A Characteristics / Specifications

PARAMETER	VALUE
Model	E8364A
Instrument Type	PNA microwave network analyzer
Frequency Range	45 MHz to 50 GHz
Port Count Class	2
Frequency Resolution	1 Hz
Cw Accuracy	plus or minus 1 ppm
Frequency Stability Typical	plus or minus 1 ppm 0 to 40 C
Nominal Source Power Standard	-17 dBm
System Dynamic Range 45 To 500 Mhz Standard	94 dB in 10 Hz IFBW
System Dynamic Range 500 Mhz To 2 Ghz Standard	119 dB in 10 Hz IFBW
System Dynamic Range 2 To 10 Ghz Standard	122 dB in 10 Hz IFBW
System Dynamic Range 10 To 20 Ghz Standard	123 dB in 10 Hz IFBW
System Dynamic Range 20 To 30 Ghz Standard	114 dB in 10 Hz IFBW
System Dynamic Range 30 To 40 Ghz Standard	110 dB in 10 Hz IFBW
System Dynamic Range 40 To 45 Ghz Standard	109 dB in 10 Hz IFBW
System Dynamic Range 45 To 50 Ghz Standard	104 dB in 10 Hz IFBW
Receiver Dynamic Range 10 To 20 Ghz Standard	125 dB in 10 Hz IFBW
Power Level Accuracy 45 Mhz To 10 Ghz	plus or minus 1.5 dB variation from nominal in range 0
Power Level Accuracy 10 To 20 Ghz	plus or minus 2.0 dB variation from nominal in range 0
Power Level Linearity 45 Mhz To 20 Ghz	plus or minus 1.0 dB at nominal power

PARAMETER	VALUE
Source Power Range 45 Mhz To 10 Ghz Standard Class	-25 to +5 dBm
Source Power Range 10 To 20 Ghz Standard Class	-24 to +3 dBm
If Bandwidth Spec Condition	10 Hz IFBW dynamic range tables
Interfaces	LAN USB GPIB class PNA
Calibration Class	ECal and mechanical full two-port family
Card Geometry	benchtop PNA microwave analyzer
Family	PNA Series E836xA
Bandwidth	Spec Condition: 10 Hz IFBW dynamic range tables

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

Specifications

PARAMETER	VALUE
Model	E8364A
Instrument Type	PNA microwave network analyzer
Frequency Range	45 MHz to 50 GHz
Port Count Class	2
Frequency Resolution	1 Hz
Cw Accuracy	plus or minus 1 ppm
Frequency Stability Typical	plus or minus 1 ppm 0 to 40 C
Nominal Source Power Standard	-17 dBm

System Dynamic Range 45 To 500 Mhz Standard: 94 dB in 10 Hz IFBW
System Dynamic Range 500 Mhz To 2 Ghz Standard: 119 dB in 10 Hz IFBW
System Dynamic Range 2 To 10 Ghz Standard: 122 dB in 10 Hz IFBW
System Dynamic Range 10 To 20 Ghz Standard: 123 dB in 10 Hz IFBW
System Dynamic Range 20 To 30 Ghz Standard: 114 dB in 10 Hz IFBW
System Dynamic Range 30 To 40 Ghz Standard: 110 dB in 10 Hz IFBW
System Dynamic Range 40 To 45 Ghz Standard: 109 dB in 10 Hz IFBW
System Dynamic Range 45 To 50 Ghz Standard: 104 dB in 10 Hz IFBW
Receiver Dynamic Range 10 To 20 Ghz Standard: 125 dB in 10 Hz IFBW
Power Level Accuracy 45 Mhz To 10 Ghz: plus or minus 1.5 dB variation from nominal in range 0
Power Level Accuracy 10 To 20 Ghz: plus or minus 2.0 dB variation from nominal in range 0
Power Level Linearity 45 Mhz To 20 Ghz: plus or minus 1.0 dB at nominal power
Source Power Range 45 Mhz To 10 Ghz Standard Class: -25 to +5 dBm
Source Power Range 10 To 20 Ghz Standard Class: -24 to +3 dBm

Specifications

PARAMETER	VALUE
If Bandwidth Spec Condition	10 Hz IFBW dynamic range tables
Interfaces	LAN USB GPIB class PNA
Calibration Class	ECal and mechanical full two-port family
Card Geometry	benchtop PNA microwave analyzer
Family	PNA Series E836xA

Notes

From Agilent PNA Series Microwave Network Analyzers E8362A/E8363A/E8364A data sheet. Configurable test set Option 014 and UNL extended power change dynamic range and available power.

Ordering Information

OPTION	DESCRIPTION
Option 014	and UNL extended power change dynamic range and available power.

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

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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.