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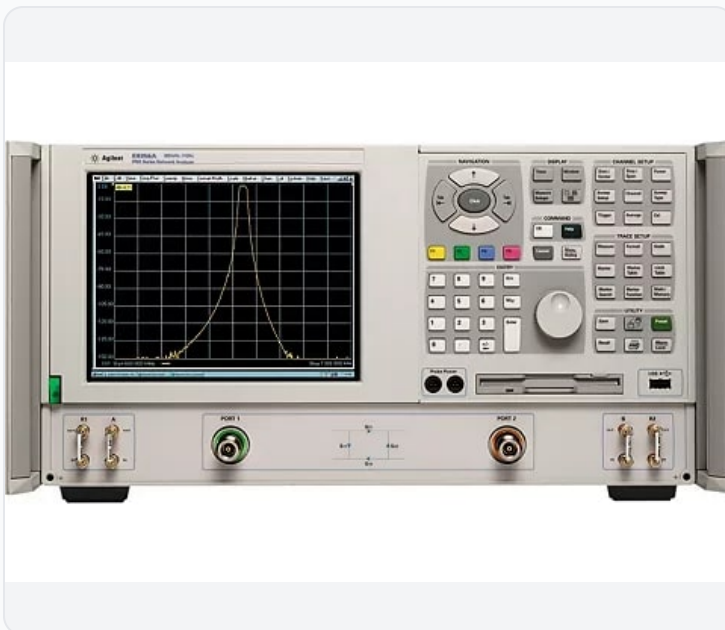
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8361A 67 GHz PNA Network Analyzer

Keysight / Agilent E8361A PNA Microwave Network Analyzer 10 MHz to 67 GHz The Agilent E8361A isaPNA microwave network analyzer covering 10 MHz to 67 GHz. Configuration guides list it alongside E8362C/E8363C/E8364C as the 67 GHz PNA member for broadband S-parameter measurements using the PNA application and calibration ecosystem. Millimeter-wave device characterization to 67 GHz, broadband VNA production test, and research microwave measurements. Ten megahertz to sixty-seven gigahertz coverage The Agilent E8361A isaPNA microwave network analyzer covering 10 MHz to 67 GHz. Configuration guides list it alongside E8362C/E8363C/E8364C as the 67 GHz PNA member for broadband S-parameter measurements using the PNA application and calibration ecosystem. Millimeter-wave device characterization to 67 GHz, broadband VNA production test, and research microwave measurements. Ten megahertz to sixty-seven gigahertz coverage Multi-channel wide point-count architecture



MODEL

**Agilent / Keysight
E8361A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8361A

LISTING

<https://aumictechlabs.com/products/e8361a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8361A is a 67 GHz PNA network analyzer delivering precise RF and microwave device characterization across 10 MHz to 67 GHz, with operation extended to 70 GHz in select

configurations. Purpose-built for S-parameter, impedance, and time-domain measurements, it combines high dynamic range with measurement speed to support demanding R&D and manufacturing workflows in wireless communications, aerospace and defense, and advanced device development.

Technical Specifications

Frequency Range 10 MHz to 67 GHz (specified); operation to 70 GHz available

Dynamic Range 94 dB (standard configuration) 127 dB at 20 GHz at test port

System dynamic range (10 Hz BW, standard configuration):

- 10 MHz to 45 MHz: 61 dB typical
- 45 MHz to 2 GHz: up to 94 dB typical
- 2 GHz to 20 GHz: up to 123 dB typical
- 20 GHz to 45 GHz: up to 114 dB typical
- 45 GHz to 50 GHz: up to 104 dB typical
- 60 GHz to 70 GHz: -77 dBm test port input

Noise & Measurement Speed

Trace noise: <0.006 dB at 10 Hz IF bandwidth; 0.002 dB rms at 1 kHz bandwidth

Measurement speed: 4.5 to 26 μ sec/point

Channel & Data Capacity 32 independent measurement channels 16,001 data points per channel 2 input channels

Output Power Maximum: 10 dBm

Key Features

- Integrated four-receiver S-parameter test set enabling true TRL calibration
- True TRL/LRM calibration with optional electronic calibration (ECal) modules
- Advanced calibration methods: vector-mixer calibration (VMC), scalar-mixer calibration (SMC), unknown thru, and adapter removal
- On-wafer, in-fixture, waveguide, and antenna measurement support
- Guided calibration and user-characterized ECal

Typical Applications

- S-parameter, impedance, and time-domain analysis
- Amplifier gain compression, harmonic, and IMD measurements
- Mixer conversion loss, return loss, and isolation characterization
- Pulsed-RF and pulsed antenna measurements
- Frequency converter and in-fixture measurements
- Absolute group delay analysis

E8361A Characteristics / Specifications

PARAMETER	VALUE
Model	E8361A
Instrument Type	PNA microwave network analyzer
Frequency Range	10 MHz to 67 GHz
Port Count Class	2
Family	PNA Series
Related Models	E8362C 20 GHz E8363C 40 GHz E8364C 50 GHz
Measurement Channels Class	32
Points Per Channel Max Class	16001
Interfaces	USB LAN GPIB
Calibration Class	ECal and mechanical calibration family
Card Geometry	benchtop PNA microwave analyzer
Dynamic Range Class	PNA series high dynamic range architecture
Noise Floor Class	PNA series low noise floor architecture
Trace Noise Class	PNA series low trace noise architecture
Speed Class	PNA series fast per-point measurements
Display Class	LCD instrument display
Windows Connectivity Class	Open Windows style PNA environment
Application Class	S-parameter mixer and pulse measurement options family
Test Set Options Class	configurable test set options available in family
Bias Tee Options Class	extended power and bias-tee options in family
Documentation Scope	OEM published numeric tables
Installed Options	determine final calibrated limits

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	
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Notes	
From Keysight Agilent PNA/PNA-L configuration guides listing E8361A frequency span. Band-by-band dynamic range for E8361A should be taken from the E8361-specific technical specifications for the installed options.	

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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NIST-traceable calibration · SAM registered ·
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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.