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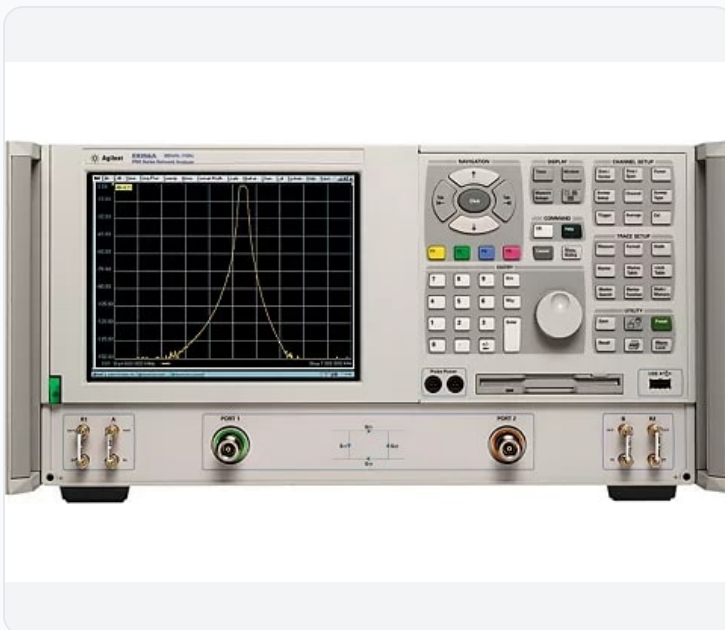
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8361C 67GHz PNA Microwave Network Analyzer

Keysight / Agilent E8361C PNA Microwave Network Analyzer 10 MHz to 67 GHz The Agilent E8361C 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 E8361C 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
E8361C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8361C

LISTING

<https://aumictechlabs.com/products/e8361c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8361C is a 67 GHz PNA microwave network analyzer delivering precision RF and microwave measurements across 10 MHz to 67 GHz. This instrument characterizes complex

components and systems with 94 dB dynamic range, sub-microsecond measurement speed ($<26 \mu\text{s}/\text{point}$), and trace noise below 0.006 dB at 1 kHz. It supports on-wafer, in-fixture, waveguide, and antenna measurements alongside advanced applications including mixer conversion loss, amplifier gain compression, harmonic and IMD analysis, and time-domain impedance characterization. The analyzer features up to 32 measurement channels with 20,001 points per channel and accommodates 2 or 4-port configurations with multiport test set compatibility.

Technical Specifications

Frequency Range: 10 MHz to 67 GHz (operation specified to 70 GHz)
Dynamic Range: 94 dB at 67 GHz
Trace Noise: $<0.006 \text{ dB}$ (1 kHz)
Measurement Speed: $<26 \mu\text{s}/\text{point}$
Measurement Channels: Up to 32
Points per Channel: 20,001
IF Bandwidth: 10 Hz
Noise Floor: -114 dBm
ALC Range: 20 dB
Ports: 2 or 4 ports with multiport test set support
Display: 10.4-inch touch screen with click-and-drag markers and zoom
Weight: 29 kg (64 lb.)
Max Line Power: 350 W

Key Features

TRL/LRM calibrations for on-wafer and fixture measurements
Electronic calibration (ECal) with fast error correction
Mixed-mode S-parameters and advanced fixture corrections
Time-domain analysis for impedance measurement and device troubleshooting
Pulsed-RF and converter test capabilities
Antenna/RCS characterization
LAN (10/100BaseT Ethernet), GPIB/SICL, and DCOM interfaces
USB and internal hard disk storage with remote file server mapping

Typical Applications

Mixer conversion loss and isolation measurements
Amplifier gain compression and harmonic analysis
Intermodulation distortion (IMD) testing
Return loss and absolute group delay characterization
Antenna and RCS measurements

Compatibility & Integration

Compatible with Keysight ECal modules (N4693A, N4694A) and calibration kits (85056A, 85058B)
Windows operating system for automation and peripheral connectivity
Multiport test set compatible

E8361C Characteristics / Specifications

PARAMETER	VALUE
Model	E8361C
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 E8361C frequency span. Band-by-band dynamic range for E8361C 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.