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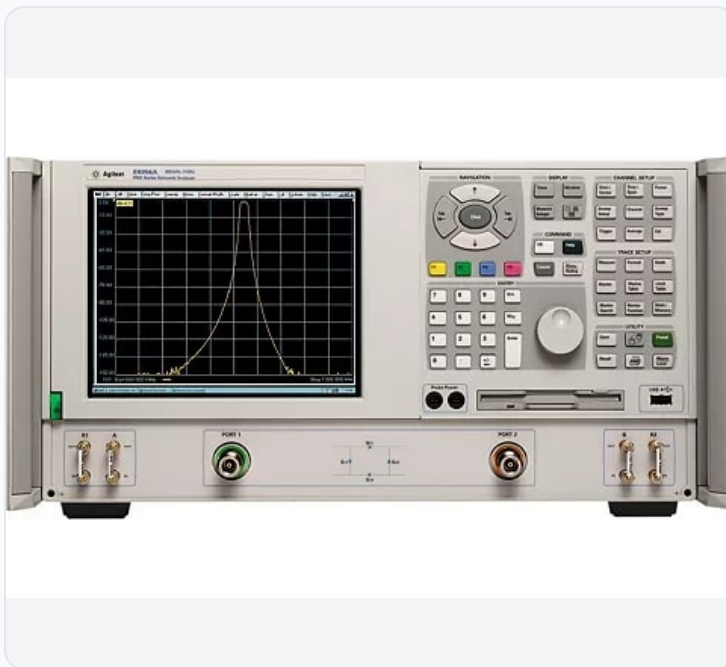
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8364C 50GHz PNA Microwave Network Analyzer

Keysight / Agilent E8364C PNA Microwave Network Analyzer 10 MHz to 50 GHz The Agilent E8364C is the 50 GHz member of the PNA E836xC family with frequency coverage from 10 MHz to 50 GHz. OEM dynamic range tables list 109 dB from 40 to 45 GHz and 104 dB from 45 to 50 GHz in 10 Hz IFBW for standard configuration, continuing the lower-band 123 dB class performance through 20 GHz. Broadband microwave component test to 50 GHz, millimeter-wave S-parameters, and high-frequency production VNA applications. The Agilent E8364C is the 50 GHz member of the PNA E836xC family with frequency coverage from 10 MHz to 50 GHz. OEM dynamic range tables list 109 dB from 40 to 45 GHz and 104 dB from 45 to 50 GHz in 10 Hz IFBW for standard configuration, continuing the lower-band 123 dB class performance through 20 GHz. Broadband microwave component test to 50 GHz, millimeter-wave S-parameters, and high-frequency production VNA applications. Ten megahertz to fifty gigahertz coverage PNA multi-channel wide point-count architecture



MODEL

**Agilent / Keysight
E8364C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8364C

LISTING

<https://aumictechlabs.com/products/e8364c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight E8364C is a 50 GHz PNA microwave network analyzer engineered for precise S-parameter and RF component characterization across research, development, and manufacturing environments. The instrument integrates a dedicated S-parameter test set with four receivers, enabling true TRL calibration alongside TRM/LRM, on-wafer, in-fixture, waveguide, and antenna measurement modes. Its 8.4-inch LCD touchscreen display and dual-interface operation - hard keys and soft keys - streamline navigation in complex test setups.

Technical Specifications

Frequency and Resolution Frequency range: 10 MHz to 50 GHz Frequency resolution: 1 Hz Phase noise: -50 dBc at 1 kHz offset (nominal)

Measurement Performance Dynamic range: 104 dB (standard, 10 Hz IF bandwidth) Trace noise: <0.006 dB RMS at 1 kHz IF bandwidth (standard) Test port noise floor: $\leftarrow$ 114 dBm at 10 Hz IF bandwidth (standard) Measurement speed: <26 microseconds per data point IF bandwidth range: 1 Hz to 40 kHz (nominal)

Power Specifications Nominal output power: -12 dBm (standard); -17 dBm with Options 14 and UNL Maximum output power: 10 dBm

Measurement Channels and Resolution Independent channels: 32 Points per sweep: 2 to 20,001 (user-definable)

Calibration Methods True TRL with four-receiver integration. Supports TRM/LRM, electronic calibration (ECal), user-characterized ECal, adapter removal, unknown Thru, data-based calibration standards, and expanded calibration algorithms.

Key Features 2.4 mm male (50 ohm) RF connectors Dual GPIB ports (controller and talker/listener) USB: 1 front-panel port, 4 rear-panel ports 10/100 BaseT Ethernet with auto-switching VGA video output (15-pin mini D-Sub) Display: 1024×768 resolution touchscreen Windows graphical user interface

Typical Applications S-parameter and frequency response analysis. Mixer characterization (conversion loss, return loss, isolation, absolute group delay). Amplifier measurements including gain compression, harmonic and IMD analysis, pulsed-RF testing. Time-domain analysis and antenna characterization.

Compatibility & Integration Operating temperature: 23 °C ± 3 °C for full specification compliance; 25 °C ± 5 °C nominal operation. Relative humidity: 0 to 95% at 40 °C (non-condensing). Altitude to 4600 m (15,000 ft). Optional configurable test set (Option 14) available.

E8364C Characteristics / Specifications

PARAMETER	VALUE
Model	E8364C
Instrument Type	PNA microwave network analyzer
Frequency Range	10 MHz to 50 GHz
Port Count Class	2
System Dynamic Range 10 To 20 GHz	123 dB in 10 Hz IFBW standard configuration
System Dynamic Range 20 To 30 GHz	114 dB in 10 Hz IFBW standard configuration
System Dynamic Range 30 To 40 GHz	110 dB in 10 Hz IFBW standard configuration
System Dynamic Range 40 To 45 GHz	109 dB in 10 Hz IFBW standard configuration
System Dynamic Range 45 To 50 GHz	104 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 40 To 50 GHz	111 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 10 To 20 GHz	125 dB in 10 Hz IFBW standard configuration
If Bandwidth Spec Condition	10 Hz IFBW dynamic range tables
Measurement Channels Class	32
Points Per Channel Max Class	16001
Upgrade Path	frequency upgrades from lower E836xC models cited
Interfaces	USB LAN GPIB
Family	PNA Series E836xC
Calibration Class	ECal and mechanical calibration family
Card Geometry	benchtop PNA microwave analyzer
Noise Floor Class	PNA series low noise floor architecture
Trace Noise Class	PNA series low trace noise architecture
Connector Class	per 50 GHz PNA test set configuration
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.

performance through 20 GHz.	
Applications	
Broadband microwave component test to 50 GHz, millimeter-wave S-parameters, and high-frequency production VNA applications.	
Key Features	
Ten megahertz to fifty gigahertz coverage	
PNA multi-channel wide point-count architecture	
Standard and optioned test set configurations	
Shared PNA calibration ecosystem	
USB LAN GPIB connectivity class	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	E8364C
Instrument Type	PNA microwave network analyzer
Frequency Range	10 MHz to 50 GHz
Port Count Class	2
System Dynamic Range 10 To 20 GHz	123 dB in 10 Hz IFBW standard configuration
System Dynamic Range 20 To 30 GHz	114 dB in 10 Hz IFBW standard configuration
System Dynamic Range 30 To 40 GHz	110 dB in 10 Hz IFBW standard configuration
System Dynamic Range 40 To 45 GHz	109 dB in 10 Hz IFBW standard configuration
System Dynamic Range 45 To 50 GHz	104 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 40 To 50 GHz	111 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 10 To 20 GHz	125 dB in 10 Hz IFBW standard configuration
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Interfaces	USB LAN GPIB
Family	PNA Series E836xC
Calibration Class	ECal and mechanical calibration family
Card Geometry	benchtop PNA microwave analyzer
Noise Floor Class	PNA series low noise floor architecture

PARAMETER	VALUE
Trace Noise Class	PNA series low trace noise architecture
Connector Class	per 50 GHz PNA test set configuration

Notes

From Keysight Agilent PNA Series E8362/3/4B andCtechnical specifications. Dynamic range depends strongly on options such as configurable test set and receiver attenuators.

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.