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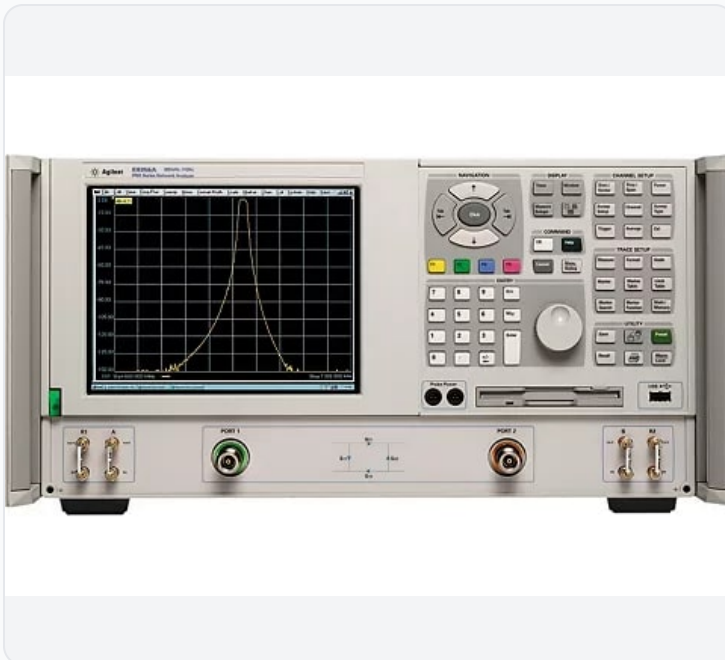
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8363C 40 GHz PNA Microwave Network Analyzer

Keysight / Agilent E8363C PNA Microwave Network Analyzer 10 MHz to 40 GHz The Agilent E8363C extends the PNA microwave network analyzer family to 10 MHz through 40 GHz. OEM system dynamic range tables for E836xB/C list 114 dB from 20 to 30 GHz and 110 dB from 30 to 40 GHz in 10 Hz IFBW for the standard configuration, with 123 dB class performance in the 10 to 20 GHz band shared with lower-frequency siblings. Architecture features align with the PNA series including multi-channel measurements and wide point counts. The Agilent E8363C extends the PNA microwave network analyzer family to 10 MHz through 40 GHz. OEM system dynamic range tables for E836xB/C list 114 dB from 20 to 30 GHz and 110 dB from 30 to 40 GHz in 10 Hz IFBW for the standard configuration, with 123 dB class performance in the 10 to 20 GHz band shared with lower-frequency siblings. Architecture features align with the PNA series including multi-channel measurements and wide point counts. Microwave and millimeter-wave component test to 40 GHz, S-parameter production test, and broadband VNA characterization.



MODEL

**Agilent / Keysight
E8363C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8363C

LISTING

<https://aumictechlabs.com/products/e8363c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight E8363C is a 40 GHz PNA Microwave Network Analyzer engineered for precision S-parameter and frequency domain measurements in aerospace, defense, and communications applications. Operating from 10 MHz to 40 GHz with up to 123 dB dynamic range and trace noise below 0.006 dB, the E8363C delivers measurement speeds under 26 microseconds per point across 32 channels at up to 20,001 data points. The instrument provides maximum output power of 10 dBm with 0.01 dB power resolution and features 2.4 mm test port connectors as standard.

Technical Specifications
Frequency Range: 10 MHz to 40 GHz
Dynamic Range: Up to 123 dB
Trace Noise: < 0.006 dB
Measurement Speed: < 26 microseconds per point
Channels: 32
Data Points: Up to 20,001
Output Power: 10 dBm maximum
Power Resolution: 0.01 dB
Test Port Connectors: 2.4 mm standard

Key Features
TRL/LRM calibration with on-wafer, in-fixture, waveguide, and antenna measurement support
Electronic calibration for rapid system-error correction; ISO 17025 and ANSI Z540 compliant calibration options available
Time-domain capability for improved accuracy and filter characterization
Pulsed-RF measurement capability
Mixer and frequency converter characterization including conversion loss, return loss, isolation, and absolute group delay
Amplifier measurements: gain compression, harmonics, and intermodulation distortion
Multiport measurement support for N-port applications
Frequency offset mode for mixer and amplifier distortion analysis
High-power measurement option accommodating up to 20 Watts (+43 dBm) from 10 MHz to 40 GHz and 10 Watts (+40 dBm) from 40 GHz to 50 GHz with external amplifiers

Typical Applications
Mixer and amplifier characterization, waveguide component analysis, on-wafer device testing, antenna performance evaluation, and frequency converter validation.

Compatibility & Integration
Windows operating system environment with LAN connectivity for remote data transfer and USB support for local storage via external hard disk, flash, or optical media. Benchtop or rackmount configurations available with optional rack mount kits.

E8363C Characteristics / Specifications

PARAMETER	VALUE
Model	E8363C
Instrument Type	PNA microwave network analyzer
Frequency Range	10 MHz to 40 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 2 To 10 GHz	122 dB in 10 Hz IFBW standard configuration
System Dynamic Range 500 MHz To 2 GHz	119 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 10 To 20 GHz	125 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 20 To 30 GHz	114 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 30 To 40 GHz	111 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 From E8362C	frequency upgrade options to 40 GHz 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
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 in the 10 to 20 GHz band shared with lower-frequency siblings. Architecture features align with the PNA series including multi-channel measurements and wide point counts.

Applications

Microwave and millimeter-wave component test to 40 GHz, S-parameter production test, and broadband VNA characterization.

Key Features

Ten megahertz to forty gigahertz coverage

PNA series multi-channel measurement architecture

Standard and configurable test set option paths

Shared PNA calibration and ECal ecosystem

USB LAN GPIB connectivity class

Technical Specifications

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PARAMETER	VALUE
Model	E8363C
Instrument Type	PNA microwave network analyzer
Frequency Range	10 MHz to 40 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 2 To 10 GHz	122 dB in 10 Hz IFBW standard configuration

System Dynamic Range 500 MHz To 2 GHz: 119 dB in 10 Hz IFBW standard configuration

Specifications

PARAMETER	VALUE
Receiver Dynamic Range 10 To 20 GHz	125 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 20 To 30 GHz	114 dB in 10 Hz IFBW standard configuration
Receiver Dynamic Range 30 To 40 GHz	111 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 From E8362C	frequency upgrade options to 40 GHz cited
Interfaces	USB LAN GPIB

PARAMETER	VALUE
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

Notes

From Keysight Agilent PNA Series E8362/3/4B andCtechnical specifications frequency and dynamic range tables.
Confirm test-port connector type and installed options on the instrument.

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 ·
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.