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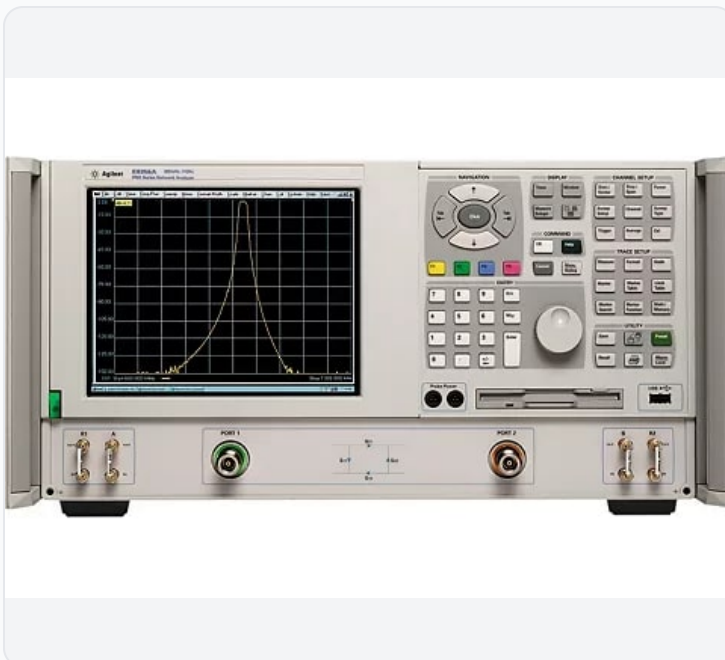
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight E8362A 20 GHz PNA Series Network Analyzer

Agilent / Keysight E8362A PNA Microwave Network Analyzer 45 MHz to 20 GHz The Agilent E8362A isaPNA Series microwave vector network analyzer covering 45 MHz to 20 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 E8362A isaPNA Series microwave vector network analyzer covering 45 MHz to 20 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
E8362A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E8362A

LISTING

<https://aumictechlabs.com/products/e8362a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E8362A is a 20 GHz PNA Series Network Analyzer engineered for high-precision characterization of RF and microwave devices across 45 MHz to 20 GHz. This four-receiver instrument delivers dynamic range up to 138 dB with direct receiver access and supports 16 independent measurement channels, enabling rapid S-parameter acquisition at sweep speeds below 26 μ s/point. Advanced calibration techniques including TRL/LRM are supported for waveguide, on-wafer, and in-fixture measurements.

Technical Specifications

Frequency range: 45 MHz to 20 GHz
Dynamic range: 123 dB at test port; 138 dB with direct receiver access (option 014)
IF bandwidth: 1 Hz to 40 kHz nominal; system IF bandwidth 10 Hz for corrected performance
Output power: 10 dBm
Measurement channels: 16 independent
Sweep speed: <26 μ s/point
RF connectors: 3.5 mm (male), 50 Ω
Display: High-resolution color touch screen LCD with integrated help
Storage: Built-in hard drive
Operating temperature: 0 to +40 °C
Storage temperature: -40 to +70 °C
Dimensions: 24 × 20 × 16 inches
Weight: 50 lbs (29 kg); shipping weight 64 lbs (36 kg)
Power supply: Auto-switching 100–120 V / 220–240 V, 50/60/400 Hz

Key Features

Four-receiver architecture enables extended dynamic range configurations
TRL/LRM calibration support for complex device geometries
Impedance and time-domain analysis capabilities
Frequency-dependent dynamic range optimization from 45 MHz through 20 GHz
Direct receiver access architecture for low-loss measurement configurations

Typical Applications

RF and microwave component characterization (amplifiers, filters, antennas)
Wireless communication device testing
Aerospace and defense applications
On-wafer and in-fixture device measurements
Research and development in RF/microwave engineering

Compatibility & Integration

The E8362A accepts 3.5 mm connectors and integrates optional bias-tee and extended power range configurations. Extended dynamic range (option 014) and extended power range with bias-tees (option UNL) are available for specialized measurement requirements.

E8362A Characteristics / Specifications

PARAMETER	VALUE
Model	E8362A
Instrument Type	PNA microwave network analyzer
Frequency Range	45 MHz to 20 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	-12 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
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
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

PARAMETER	VALUE
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	E8362A
Instrument Type	PNA microwave network analyzer
Frequency Range	45 MHz to 20 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	-12 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
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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.