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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight E5061B

Agilent E5061B ENA Vector Network Analyzer The Agilent E5061B ENA is an RF network analyzer platform spanning LF/RF options for passive and active device test. OEM ENA family documentation emphasizes wide dynamic range S-parameter measurements, multiport options, and production-oriented sweep speed in a compact ENA chassis. RF filter, cable, antenna, and component S-parameter test from LF through RF, including production and education labs. Instrument Family: Agilent E5061B ENA network analyzer The Agilent E5061B ENA is an RF network analyzer platform spanning LF/RF options for passive and active device test. OEM ENA family documentation emphasizes wide dynamic range S-parameter measurements, multiport options, and production-oriented sweep speed in a compact ENA chassis. RF filter, cable, antenna, and component S-parameter test from LF through RF, including production and education labs. Instrument Family: Agilent E5061B ENA network analyzer Measurement Type: S parameter vector network analysis



MODEL

**Agilent / Keysight
E5061B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

E5061B

LISTING

<https://aumictechlabs.com/products/e5061b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight E5061B is a 2-port network analyzer spanning 5 Hz to 3 GHz, delivering integrated low-frequency and RF measurement capabilities for component and circuit characterization. Built for R&D and production environments in wireless, aerospace, automotive, and medical industries, the instrument combines dual test ports - an S-parameter port (5 Hz to 3 GHz, 50 Ω) and a gain-

phase port (5 Hz to 30 MHz, switchable 1 M Ω // 30 pF or 50 Ω) - with a standard DC bias source capable of ± 40 Vdc sweep at 100 mA maximum. Dynamic range reaches 120 dB with trace noise of 0.005 dB rms at 1–3 GHz (IFBW = 10 Hz). Output power spans –45 dBm to +10 dBm across the full frequency range. The 10.4 inch LCD touch screen and Windows OS interface support USB, LAN, and optional GPIB connectivity for flexible test automation and data transfer.

Technical Specifications

Frequency Range: 5 Hz to 3 GHz
Dynamic Range: Up to 120 dB
Output Power: –45 dBm to +10 dBm
Trace Noise: 0.005 dB rms (1 MHz–3 GHz, IFBW = 10 Hz); 5 mdB rms (IFBW = 3 kHz/Auto)
Test Ports: 2 (S-parameter, Gain-phase)
System Impedance: 50 Ω or 75 Ω (configurable by test set)
S-Parameter Port: 5 Hz to 3 GHz, 50 Ω
Gain-Phase Port: 5 Hz to 30 MHz; input impedance switchable (1 M Ω // 30 pF or 50 Ω)
DC Bias Source: 0 to ± 40 Vdc, 100 mA maximum; superimposable to source signal
Receiver Attenuator: 0 dB/20 dB (manually selectable per receiver)
Display: 10.4 inch LCD touch screen
Connectivity: USB, LAN, GPIB (optional)
Dimensions: 254 mm W $\times$ 498 mm D

Key Features

- Direct S-parameter measurement from 5 Hz to 3 GHz
- High-impedance probing via switchable gain-phase input
- Built-in probe power for external active probes
- Impedance analysis option for capacitor, inductor, and resonator characterization
- Time domain fault location analysis option for cable and connector diagnostics
- Internal manual receiver attenuation selection

Typical Applications

- Component impedance and reflection measurement
- RF and low-frequency circuit analysis
- Cable and connector discontinuity detection
- DC-biased device characterization

Compatibility & Integration

Supports USB, LAN, and optional GPIB interfaces for remote control and data logging in automated test environments.

E5061B Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Agilent E5061B ENA network analyzer
Measurement Type	S parameter vector network analysis
Port Count Class	2 port ENA architecture
Dynamic Range Class	Wide dynamic range ENA class performance
Frequency Coverage Class	LF through RF by installed options
IF Bandwidth Selections	Multiple IFBW settings for dynamic range tradeoff
Calibration Support	Full 2 port calibration
Display	Embedded ENA graphical user interface
Remote Interfaces	LAN USB GPIB
Sweep Modes	Linear and segment sweep class
Marker Functions	Multiple markers with math
Fixture Tools	Port extension and fixture compensation class
Trace Noise Class	Low trace noise ENA architecture
Form Factor	Benchtop ENA chassis
Output Power Class	Adjustable source power within option limits
Impedance	50 ohms test ports nominal
Connector Class	TypeNor option dependent precision connectors
Software Options	Time domain and analysis options available
Upgrade Path	Option upgradeable ENA platform
Operating Temperature Class	Standard benchtop lab environment
Series Family	Agilent ENA E5061B and E5063A class
Source Attenuator Class	Step attenuator source path class
Receiver Architecture	Tuned receiverSparameter engine
Bandwidth	Selections: Multiple IFBW settings for dynamic range tradeoff
Operating temperature	Class: Standard benchtop lab environment

E5061B Specifications

PARAMETER	VALUE
Agilent E5061B ENA Vector Network Analyzer	Overview
LF to RF frequency option paths	2 port test set architecture
Technical Specifications	Instrument Family: Agilent E5061B ENA network analyzer

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Standard benchtop lab environment
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Operating Temperature Class	Standard benchtop lab environment
Series Family	Agilent ENA E5061B and E5063A class
Source Attenuator Class	Step attenuator source path class
Receiver Architecture	Tuned receiverSparameter engine Notes From Agilent E5061B ENA family product documentation. Exact start/stop frequency, dynamic range, and connector type are option-dependent; confirm the unit option string against the OEM configuration table.

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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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.