

# Keysight E5061B ENA Series Vector Network Analyzer



**RF NA Options**  
(Opt.115,215,135,235,117,  
217,137,237)



**LF-RF NA Options**  
(Opt.3L3/3L4/3L5)

## Combine network analysis and impedance analysis in a single instrument

The Keysight E5061B, a member of the industry standard ENA Series addresses a broad range of measurement needs of electronic components from low to high frequencies.

- Wide dynamic range: > 120 dB (10 Hz IFBW)
- 50-ohm and 75-ohm test set options
- Built-in DC bias source (Opt. 3L3, 3L4, 3L5)
- Impedance analysis solution (Opt.005 plus 3L3/3L4/3L5)
- Low frequency coverage down to 5 Hz
- Power integrity measurements (ex. Power distribution network or PDN, DC-DC converters)

## Key Features

Features	Descriptions
Frequency	5 Hz to 0.5 / 1.5 / 3 GHz (Opt. 3L3 / 3L4 / 3L5) 100 kHz to 1.5 GHz (Opt. 115, 215, 117, 217) 100 kHz to 3 GHz (Opt. 135, 235, 137, 237)
System impedance	50 Ω (Opt. 3L3, 3L4, 3L5, 115, 215, 135, 235) 75 Ω (Opt. 117, 217, 137, 237)
Test set port options	Economy transmission / reflection test set with S11 and S21 measurements only (Option 115, 117, 135, 137) S-parameter test set with S11, S21, S12 and S22 measurements (Option 215, 217, 235, 237) S-parameter test set and gain-phase ports from 5 Hz (Option 3L3, 3L4, 3L5)
Analysis	Impedance analysis software (Opt.3L3, 3L4, 3L5), Wireless power transfer analysis (Opt. 3Lx, 215, 235), Time domain analysis/fault location (all test set options)



Compatible with a wide variety of test fixtures (Opt. 3L3/3L4/3L5)



N7550A Economy ECal module for fast and easy calibration

## E5061B Configuration

Option	Description
<b>Test set options<sup>1</sup></b>	
Option 115	Transmission/Reflection test set, 100 kHz to 1.5 GHz, 50-ohm
Option 215	S-parameter test set, 100 kHz to 1.5 GHz, 50-ohm
Option 135	Transmission/Reflection test set, 100 kHz to 3 GHz, 50-ohm
Option 235	S-parameter test set, 100 kHz to 3 GHz, 50-ohm
Option 117	Transmission/Reflection test set, 100 kHz to 1.5 GHz, 75-ohm
Option 217	S-parameter test set, 100 kHz to 1.5 GHz, 75-ohm
Option 137	Transmission/Reflection test set, 100 kHz to 3 GHz, 75-ohm
Option 237	S-parameter test set, 100 kHz to 3 GHz, 75-ohm
Option 3L3	LF-RF vector network analyzer with DC bias source, 5 Hz to 500 MHz
Option 3L4	LF-RF vector network analyzer with DC bias source, 5 Hz to 1.5 GHz
Option 3L5	LF-RF vector network analyzer with DC bias source, 5 Hz to 3 GHz
<b>Software Options</b>	
Option 005	Impedance analysis for LF-RF NA options (For Option 3L3, 3L4, 3L5)
Option 006	Wireless power transfer analysis (For Option 215, 235, 3L3, 3L4, 3L5)
Option 010	Time domain analysis/fault location
<b>Hardware Options</b>	
Option 020 <sup>2</sup>	Standard hard disk drive
Option 1E5	Add High stability time base
Option 721	Without GPIB interface (must choose either Option 721 or 722)
Option 722	Add GPIB interface (must choose either Option 721 or 722)
Option 731	Without handler I/O interface (must choose either Option 731 or 732)
Option 732	Add handler I/O interface (must choose either Option 731 or 732)

1. Must choose one of test set options

2. Option 020 is the only storage option. Must choose this option.

For additional information, please go to E5061B configuration guide:

<http://literature.cdn.keysight.com/litweb/pdf/5990-4391EN.pdf>

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## Accessories for Impedance Analysis

Model	Description
<b>Terminal adapter and calibration kit</b>	
160201A	7 mm terminal adapter kit for E5061B (Choose option 001)
16195B	7 mm calibration kit (open/short/load, and low-loss capacitor)
85031B	7 mm calibration kit (open/short/load)
<b>7 mm test fixtures</b>	
16092A	Test fixture, 500 MHz, for SMD and leaded DUT
16196A	SMD test fixture, 3 GHz
<b>4 terminal-pair test fixtures</b>	
16047E	Test fixture, for leaded DUT
16034E/G/H	SMD test fixture

For more information about how to select impedance test accessories, refer to E5061B impedance analysis data sheet: <http://literature.cdn.keysight.com/litweb/pdf/5990-7033EN.pdf>



16091A terminal adapter and  
16092A 7-mm test fixture



16047E test fixture for  
gain-phase ports