

## KEYSIGHT TECHNOLOGIES (AGILENT HP)

# E8364C

The Keysight (formerly Agilent) E8364C is a vector network analyzer from the Microwave PNA Series, designed for general-purpose network analysis. It features a frequency range of 10 MHz to 50 GHz, a dynamic range of 104 dB, and high-speed measurements at less than 26  $\mu$ s/point. The instrument supports highly advanced measurements and calibrations including TRL/LRM, on-wafer, amplifier gain compression, and complex mixer testing, with deep extensibility through a wide range of optional hardware and software configurations.

## SPECIFICATIONS

### General

|              |                           |
|--------------|---------------------------|
| Mass Storage | Removable hard disk drive |
|--------------|---------------------------|

### System Performance

|                       |                      |
|-----------------------|----------------------|
| Frequency Range       | 10 MHz to 50 GHz     |
| System Dynamic Range  | 104 dB               |
| Measurement Speed     | < 26 $\mu$ s / point |
| Measurement Channels  | 32                   |
| Data Points per Sweep | Up to 20,001         |

### Measurement Capabilities

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| Sweep Types         | Linear, CW (single frequency), power, segment sweep                                      |
| Display Formats     | Log or linear magnitude, SWR, phase, group delay, real and imaginary, Smith chart, polar |
| Markers             | 10 independent markers per trace (including reference marker for delta operation)        |
| Limit Lines         | Definable test limit lines for go/no go testing                                          |
| Calibration Methods | TRL/LRM, on-wafer, in-fixture, waveguide, antenna measurements                           |

### Test Port Input

|                          |               |
|--------------------------|---------------|
| Test Port Connector Type | 2.4 mm (male) |
| Nominal Impedance        | 50 $\Omega$   |

### Options and Configurations

|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Available Hardware Options | Configurable test set, extended power range and bias-tees, IF access                                                               |
| Available Software Options | Time-domain, frequency-offset, embedded LO measurements, pulsed-RF, 4-port/N-port, vector/scalar calibrated converter measurements |

Frequency

|                             |                    |
|-----------------------------|--------------------|
| Frequency Resolution        | 1 Hz               |
| Internal Reference Accuracy | ± 1 ppm (standard) |

Receiver

|                    |                |
|--------------------|----------------|
| IF Bandwidth Range | 1 Hz to 40 kHz |
|--------------------|----------------|

Source

|                         |         |
|-------------------------|---------|
| Output Power Resolution | 0.01 dB |
|-------------------------|---------|

Architecture

|                       |             |
|-----------------------|-------------|
| Number of Test Ports  | 2           |
| Receiver Architecture | 4 receivers |

Compliance

|                |             |
|----------------|-------------|
| LXI Compliance | LXI Class C |
|----------------|-------------|

TECHNOLOGY

Vector Network Analysis

APPLICATIONS

Microwave Component, Amplifier, and Mixer Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.