

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E5080A

The Keysight E5080A is a flexible, comprehensive Vector Network Analyzer (VNA) in the ENA series, offering frequency coverage from 9 kHz up to 9 GHz. Designed as the next-generation successor to the popular E5071C, it features enhanced dynamic range, fast measurement speeds, and an intuitive touchscreen UI based on a modern software architecture.

SPECIFICATIONS

General

Interfaces	USB 2.0 (Host and Device), LAN (10/100/1000Base-T), GPIB, DisplayPort
Display	12.1-inch WXGA (1280 x 800) TFT color LCD touchscreen
Storage Type	Removable Solid State Drive (SSD)

Physical

Power Supply	100 to 240 VAC, 50/60 Hz
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General Characteristics

Number of Test Ports	2 or 4 (option dependent)
System Impedance	50 Ω
Test Port Connector Type	Type-N (female)
Architecture Type	Vector Network Analyzer

Frequency Characteristics

Frequency Range	9 kHz to 4.5 / 6.5 / 9 GHz (option dependent)
Internal Reference Output Frequency	10 MHz
External Reference Input Frequency	10 MHz

Test Port Input (Receiver)

Damage Level (DC)	35 VDC
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System Performance and Dynamic Range

System Dynamic Range	Up to 135 dB (147 dB typical)
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Measurement Capabilities

Sweep Types	Linear frequency, log frequency, segment sweep, power sweep
Number of Measurement Points	1 to 100,001
IF Bandwidth (IFBW) Range	1 Hz to 3 MHz

Calibration and Error Correction

Supported Calibration Methods	SOLT, TRL, Unknown Thru, ECal
Electronic Calibration (ECal) Support	Yes

Display and Interfaces

Display Size	12.1-inch
Display Resolution	WXGA (1280 x 800)
Touchscreen Support	Yes (Multi-touch)

Data Processing and Software

Operating System	Windows 7 Embedded Standard
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Power

AC Line Voltage	100 to 240 VAC
AC Line Frequency	50 / 60 Hz

Inputs & Outputs

Reference Input Connector	BNC (female)
Reference Output Connector	BNC (female)
Trigger Input Connector	BNC (female)
Trigger Output Connector	BNC (female)

Configuration Options

Frequency & Port Configurations	2-Port: 4.5 GHz (Opt 245), 6.5 GHz (Opt 265), 9 GHz (Opt 295) / 4-Port: 4.5 GHz (Opt 445), 6.5 GHz (Opt 465), 9 GHz (Opt 495)
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Connectivity

LAN Interface	10/100/1000Base-T Ethernet
Video Output	DisplayPort
USB Ports	USB Type-A (Front and Rear), USB Type-B (Rear)

Compliance

LXI Compliance	LXI Core 2011 Compliant
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TECHNOLOGY

Vector Network Analyzer (VNA)

APPLICATIONS

RF and microwave component testing, filter tuning, amplifier test, manufacturing and R&D

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