

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E4408B-BAS

The Keysight (formerly Agilent / HP) E4408B-BAS is a 9 kHz to 26.5 GHz basic spectrum analyzer from the ESA-L series, designed for general-purpose bench-top, manufacturing, or service environments. It delivers essential spectrum analysis capabilities with a fast 5-minute warm-up time, rugged weather-resistant construction, and built-in PowerSuite measurements.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488), RS-232, Parallel (Centronics)
Display	16.5 cm (6.5 in) color VGA TFT LCD
Warm-up Time	5 minutes (to guaranteed measurement accuracy)

Physical

Power Supply	90 to 132 Vrms (47-440 Hz) / 195 to 250 Vrms (47-66 Hz), < 300 W
Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	373 × 222 × 409 mm
Weight	17.1 kg

Frequency Specifications

Frequency Range	9 kHz to 26.5 GHz
Frequency Reference Aging Rate	$\pm 2 \times 10^{-6}$ / year
Phase Noise (10 kHz offset)	≤ -90 dBc/Hz

Amplitude Specifications

Maximum Safe Input Level (Average Power)	+30 dBm (1 W)
Maximum DC Input Voltage	0 Vdc (DC coupled)
Input Attenuator Range	0 to 65 dB
Input Attenuator Step Size	5 dB

Inputs and Outputs

RF Input Connector Type	APC-3.5 mm (male)
RF Input Impedance	50 Ω
10 MHz Reference Input	BNC (female)
10 MHz Reference Output	BNC (female)

Software and Control

Trace Detectors	Peak, Sample, Negative Peak, Normal (Rosenfell)
Measurement Personalities	PowerSuite one-button RF power measurements (Standard), 8590 series code compatibility (Option)

Hardware Options

Tracking Generator Option	50 ohm tracking generator
Battery Option	Snap-on battery pack

Performance

Trigger Modes	Free run, single, line, video, external
Amplitude Scale Settings	Log: 0.1, 0.2, 0.5, 1 to 20 dB/div; Linear: 10 divisions
Display Sweep Points	401

Power

Maximum Power Consumption	< 300 W
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Environmental

Operating Altitude	Up to 3,000 meters (9,840 ft)
Operating Humidity	Up to 95% relative humidity at 40°C (non-condensing)

Compliance

Safety Compliance	IEC 61010-1, CSA C22.2 No. 1010.1
EMC Compliance	CISPR 11 / EN 55011 Group 1 Class A

Data Storage

Removable Media Storage	3.5-inch 1.44 MB floppy disk drive
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Frequency

Span Range	0 Hz (zero span), 100 Hz to 26.5 GHz
Marker Resolution	Span / 400

Bandwidth

Video Bandwidth (VBW) Range	30 Hz to 3 MHz (1 Hz minimum with Option 1DR)
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Amplitude

Reference Level Range	-149 dBm to +30 dBm
Amplitude Units	dBm, dBmV, dBμV, Volts, Watts
Calibration Signal Frequency	50 MHz
Calibration Signal Amplitude	-20 dBm

TECHNOLOGY

RF / Microwave

APPLICATIONS

Spectrum Analysis

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