

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E8241A

The Agilent/Keysight E8241A is a high-performance PSG-L Series analog signal generator covering a standard frequency range of 250 kHz to 20 GHz. Designed for demanding R&D and manufacturing tests, it delivers industry-leading output power, superior level accuracy, and extremely low phase noise, making it ideal for the accurate characterization of RF and microwave components and systems without requiring external amplification.

SPECIFICATIONS

Frequency

Minimum Frequency	250 kHz Hz
Maximum Frequency	20 GHz Hz
Frequency Resolution	0.01 Hz

Modulation

Sweep Modes	Step sweep, List sweep
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General

Reference Oscillator	10 MHz (Internal Timebase)
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Physical

Dimensions (W×H×D)	178 mm H x 426 mm W x 515 mm D (4U rack height) mm
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Frequency Specifications

Reference Output Frequency	10 MHz
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Amplitude and Output Power

Output Impedance	50 Ω (nominal)
Level Control Modes	ALC On, ALC Off

Connectivity and Interface

GPIB Protocol	IEEE-488.2
Command Languages	SCPI

Environmental and Compliance

Operating Temperature Range	0 to 55 °C
Storage Temperature Range	-40 to 70 °C

Configurable Options and Accessories

Option 1EA	High output power
Option 1E1	Step attenuator
Option UNJ	Enhanced phase noise performance

Options

Option 1E5	High stability timebase
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Inputs & Outputs

RF Output Connector (Standard)	3.5 mm male
RF Output Connector (Option 1ED)	Type-N female
GPIO Interface Connector	24-pin IEEE-488
LAN Interface Connector	RJ-45
Serial Interface Connector	9-pin D-sub (RS-232)

TECHNOLOGY

RF/Microwave Analog Signal Generator

APPLICATIONS

RF and microwave component testing, local oscillator substitution, transmitter stimulus-response testing, and radar/comms receiver characterization

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