

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E8663B

The Keysight E8663B is a high-performance analog signal generator designed for the most demanding applications, including radar system development, satellite communications evaluation, and low-noise local oscillator replacement. Operating across a frequency range of 100 kHz to 3.2 or 9 GHz, it is renowned for delivering industry-leading close-to-carrier phase noise performance, high output power, and excellent level accuracy. Backwards compatible with legacy HP 8662A and 8663A models, it incorporates versatile AM, FM, phase, and pulse modulation capabilities to satisfy precise analog test requirements.

SPECIFICATIONS

Frequency

Minimum Frequency	100 kHz Hz
Maximum Frequency	9 GHz (frequency option dependent) Hz
Frequency Resolution	0.001 Hz

Modulation

Modulation	AM, FM, Phase (ØM), Pulse
Sweep Modes	Step sweep, list sweep (frequency and power)

Frequency Specifications

Frequency Range Option 503	100 kHz to 3.2 GHz
Frequency Range Option 509	100 kHz to 9 GHz

Amplitude Specifications

Output Impedance	50 ohms nominal
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Reference I/O

10 MHz Reference Output Connector	BNC female (rear panel)
10 MHz Reference Output Impedance	50 ohms nominal

Options

Option 007	Analog ramp sweep
Option 1EH	Improved harmonics below 2 GHz
Option UNU	Pulse modulation
Option UNW	Narrow pulse modulation
Option 1EM	Moves all front panel connectors to rear panel
Option 1CN	Front handle kit
Option 1CM	Rack flange kit
Option 1CP	Rack flange and front handle kit
Option 1A7	ISO 17025 calibration with test data
Option UK6	Commercial calibration certificate with test data

TECHNOLOGY

RF & Microwave Analog Signal Generator

APPLICATIONS

Radar system development, satellite communications evaluation, low-noise local oscillator or reference signal generation

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