

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E8663D

The Keysight (formerly Agilent / HP) E8663D is a high-performance PSG RF analog signal generator engineered to provide the industry's lowest close-to-carrier phase noise in an off-the-shelf instrument. Built on the legacy of the 8663A, it is fully code-compatible with its predecessors and is optimized for demanding applications such as radar system development, satellite communications evaluation, and as an exceptionally low-noise local oscillator or reference signal. Depending on the option, it covers 100 kHz up to 3.2 GHz or 9.0 GHz, and features extensive optional analog and pulse modulation capabilities.

SPECIFICATIONS

Frequency

Minimum Frequency	100 kHz Hz
Maximum Frequency	3.2 GHz or 9.0 GHz (option dependent) Hz
Frequency Resolution	0.001 Hz
Phase Offset Resolution	0.1°

Output

RF Output Impedance	50 Ω (nominal)
Amplitude Resolution	0.01 dB

Modulation

Sweep Modes	Step, List
AM Depth	0 to 100%
Pulse Modulation On/Off Ratio	> 80 dB

Physical

Rack Height	4U
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Frequency Specifications

Frequency Range (Option 503)	100 kHz to 3.2 GHz
Frequency Range (Option 509)	100 kHz to 9.0 GHz

Front and Rear Panel Connectivity

Supported Command Sets	SCPI and IVI-COM drivers
Code Compatibility	Backwards compatible with 8662A, 8663A, and E8663B signal generators
System Compatibility	Compatible with E5500 and 3048A phase noise test systems

Amplitude Specifications

High Output Power Option	Option 1EU
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Inputs & Outputs

10 MHz Reference Input	BNC (female)
10 MHz Reference Output	BNC (female)

Environmental

Operating Temperature	0 to 55 °C
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Compliance

LXI Compliance	LXI Class C
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TECHNOLOGY

RF / Microwave

APPLICATIONS

Test & Measurement

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