

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8663A

The Agilent/HP 8663A is a high-performance synthesized RF signal generator spanning 100 kHz to 2560 MHz. Designed for demanding applications such as radar, satellite communications, and phase noise measurement systems, it provides exceptional spectral purity, featuring an SSB phase noise of <-147 dBc/Hz at a 10 kHz offset. It integrates versatile AM, FM, phase, and pulse modulation capabilities driven by an internal 10 Hz to 99.9 kHz synthesizer.

SPECIFICATIONS

Frequency

Minimum Frequency	100 kHz Hz
Maximum Frequency	2.56 GHz Hz
Internal Timebase Aging Rate	< 5 × 10 ⁻¹⁰ / day (after 10 days)

Output

Maximum Output Power	+16 dBm dBm
Output Power Range	+16 dBm to -129.9 dBm

Modulation

Modulation Sources	Internal or External
Simultaneous Modulation	Supported
Phase Modulation	Available via Option 002

General

Reference Oscillator	10 MHz (aging < 5 × 10 ⁻¹⁰ /day)
Interfaces	HP-IB, CIIL / MATE (Option 700)

Physical

Power Supply	100/120/220/240 Vac (+5%, -10%), 48-66 Hz (400 Hz for 100/120V)
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Frequency Characteristics

Frequency Range	100 kHz to 2560 MHz
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Spectral Purity

Harmonics	<-30 dBc
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Connectivity & Interfaces

Command Compatibility	MATE CIIL (Available via external translator Option 700)
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Amplitude

Output Impedance	50 Ω
Amplitude Resolution	0.1 dB

Inputs & Outputs

RF Output Connector	Type N (female)
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Environmental

Operating Temperature	0 °C to +55 °C
Storage Temperature	-40 °C to +75 °C

TECHNOLOGY

RF

APPLICATIONS

Radar testing, satellite communication, phase noise 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.