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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8673E Synthesized Signal Generator

HP Agilent Keysight 8673E Synthesized Signal Generator 2.0 to 18.0 GHz The HP/Agilent 8673E isavalue-oriented synthesized microwave signal generator covering 2.0 to 18.0 GHz (1.95 to 18.6 GHz overrange) with 128 dB calibrated dynamic range. OEM 8673E data sheet lists plus 8 to minus 120 dBm, 1/2/3 kHz resolution by band, AM/FM/pulse, and digital sweep identical to 8673B/C/D. 2 to 18 GHz receiver and component tests that needawide leveled range, pulsed microwave stimulus, and HP-IB automated microwave sources. The HP/Agilent 8673E isavalue-oriented synthesized microwave signal generator covering 2.0 to 18.0 GHz (1.95 to 18.6 GHz overrange) with 128 dB calibrated dynamic range. OEM 8673E data sheet lists plus 8 to minus 120 dBm, 1/2/3 kHz resolution by band, AM/FM/pulse, and digital sweep identical to 8673B/C/D. 2 to 18 GHz receiver and component tests that needawide leveled range, pulsed microwave stimulus, and HP-IB automated microwave sources. 128 dB calibrated output range with 0.1 dB digital display

MODEL **Agilent / Keysight 8673E**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **8673E**	LISTING **https://aumictechlabs.com/products/8673e-2/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8673E is a synthesized signal generator delivering precise RF and microwave signal generation across 2.0 to 18.0 GHz. Built on a three-band synthesized

architecture, it combines wide dynamic range, excellent spectral purity, and flexible modulation to support demanding test environments in wireless communications, radar characterization, and RF manufacturing.Technical Specifications Frequency Performance Frequency range: 2.0 GHz to 18.0 GHz (overrange to 18.6 GHz) Frequency resolution: 3 kHz Time base stability: 0.000000005 /day External reference: 10 MHz Output Power Output range: −120 dBm to +8 dBm (128 dB dynamic range) Output impedance: 50 Ohm Output level resolution: 0.1 dB Output accuracy: 6.5 dB Spectral Purity Single-sideband noise floor: −60 dBc/Hz Harmonic content: −40 dBc Non-harmonic spurious: −60 dBcKey Features Modulation & Sweep Simultaneous AM, FM, and pulse modulation AM rates to 100 kHz with linear external voltage control (±1 V peak) FM deviation to 10 MHz with metered ranges; unlocked mode supports 50 Hz rates Manual, auto, and single sweep modes with digital capability Up to 9999 frequency points per sweep; adjustable dwell time 1–255 ms Five independent, settable frequency markers with sweep outputs (0 to +10 V ramp, Z-axis blanking, tone marker) Control & Integration HP-IB programmable interface (all functions except power switch) Type-N output connector Universal AC input: 100, 120, 220, 240 V (±5%, −10%), 48–66 Hz Power consumption: 400 VA maximumPhysical & Operating Profile Dimensions: 146 mm H × 425 mm W × 620 mm D | Net weight: 29 kg | Shipping weight: 34.5 kgTypical Applications Wireless communications testing, radar system validation, RF subsystem characterization, and component acceptance testing in production environments.

8673E Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	HP Agilent 8673A/B/C/D/E/G/H
Frequency Range	2.0 to 18.0 GHz
Frequency Overrange	1.95 to 18.6 GHz
Frequency Resolution 2.0 to 6.6 GHz	1 kHz
Frequency Resolution 6.6 to 12.3 GHz	2 kHz
Frequency Resolution 12.3 to 18.0 GHz	3 kHz
SSB Phase Noise	less than minus 60 dBc in 1 Hz BW at 1 kHz offset, CW mode
Harmonics	less than minus 40 dBc at plus 3 dBm
Subharmonics	minus 35 dBc at plus 3 dBm
Output Level	plus 8 to minus 120 dBm at plus 15 to plus 35 C
Level Resolution	0.1 dB digital display
Pulse On Off Ratio	greater than 70 dB
Pulse Rise Fall Typical	less than 50 ns
Pulse Repetition Frequency	50 Hz to 1 MHz
Pulse Minimum Duty Cycle	less than 0.0001 for leveled performance
AM Depth	0 to 75 percent at 0 dBm maximum carrier, 15 to 35 C
AM Rate at 30 percent	10 Hz to 50 kHz plus or minus 3 dB
AM Sensitivity Ranges	30 percent perVand 100 percent perVFM Locked Mode: up to 3 MHz deviation depending on modulation index
FM Unlocked Mode	up to 10 MHz deviation at rates as low as 50 Hz
Sweep	digital sweep identical to 8673B/C/D
Remote Interface	HP-IB
HPIB Functions	SH1, AH1, T5, TE0, L3, LE0, SR1, RL1, PP1, DC1, DT1, C0, E1
Operating Temperature	0 to 55 C

PARAMETER	VALUE
Power	100, 120, 220, 240 V plus 5 percent minus 10 percent, 48 to 66 Hz, 400 VA max
Net Weight	29 kg (64 lb)
Dimensions	146 mmHby 425 mmWby 620 mmDOutput Impedance: 50 ohm
Reference	10 MHz quartz crystal
Programming	all functions except line switch
Dynamic Output Range	128 dB

General Specifications & Supplementary Characteristics

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Dynamic Output Range	128 dB Notes Numeric rows from HP 8673E Synthesized Signal Generator catalog/data sheet. Digital sweep and HP-IB characteristics are stated as identical to 8673B/C/D. Do not use the list price line from that sheet.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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