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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8673A Synthesized Signal Generator

HP Agilent Keysight 8673A Synthesized Signal Generator 2.0 to 26.0 GHz The HP/Agilent 8673A is a synthesized microwave signal generator covering 2.0 to 26.0 GHz. OEM 8673A operating manual (08673-90003) and product summaries list RF output from plus 1 dBm to minus 120 dBm, AM and FM, internally leveled pulse modulation, digital sweep, and HP-IB control. Microwave receiver and radar/EW tests to 26 GHz, pulsed microwave stimulus, and automated HP-IB microwave source systems. 2 to 26 GHz single-instrument synthesized coverage The HP/Agilent 8673A is a synthesized microwave signal generator covering 2.0 to 26.0 GHz. OEM 8673A operating manual (08673-90003) and product summaries list RF output from plus 1 dBm to minus 120 dBm, AM and FM, internally leveled pulse modulation, digital sweep, and HP-IB control. Microwave receiver and radar/EW tests to 26 GHz, pulsed microwave stimulus, and automated HP-IB microwave source systems. 2 to 26 GHz single-instrument synthesized coverage Digital sweep with microprocessor-enhanced control



MODEL

**Agilent / Keysight
8673A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8673A

LISTING

<https://aumictechlabs.com/products/8673a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8673A is a synthesized signal generator delivering precise RF and microwave signal generation from 2 GHz to 26 GHz. Built on indirect synthesis with YIG-tuned

oscillator phase-locked to a 10 MHz quartz reference, It has frequency stability better than 5×10^{-7} per day and exceptionally flat output across the full operating range. The instrument supports amplitude, frequency, and pulse modulation simultaneously, with output power continuously variable from +1 dBm to -120 dBm and 0.1 dB resolution.

Technical Specifications

Frequency & Stability Frequency range: 2 GHz to 26 GHz Frequency resolution: 1 kHz to 4 kHz depending on band Frequency stability: 80 dB, rise/fall times <35 ns, pulse widths to 100 ns, rates to 1 MHz via TTL drive Simultaneous AM, FM, and pulse modulation supported Phase Noise Single-sideband phase noise optimized via phase-locked loop design

Key Features Programmable control via front panel or rear HP-IB connector (all functions except line switch) Leveled pulse modulation with peak power calibrated before frequency multiplication Broadband component and receiver testing capability

Typical Applications Wireless communications testing Radar system characterization RF and microwave component evaluation

Compatibility & Integration HP-IB programmable interface enables integration into automated test systems.

8673A 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 26.0 GHz
Output Level Range	plus 1 dBm to minus 120 dBm
Output Impedance	50 ohm
Modulation Types	AM, FM, and internally leveled pulse
Sweep	digital sweep
Remote Interface	HP-IB
Architecture	YIG-tuned oscillator phase locked to quartz reference
Form Factor	benchtop microwave generator
Programming	front panel or rear HP-IB
Operating Context	microwave radar/EW and receiver test
Power	mains powered
Brand Lineage	HP / Agilent
Minimum Output Power	minus 120 dBm
Maximum Output Power	plus 1 dBm
Frequency Coverage Verified	2 to 26 GHz
Pulse Modulation	internally leveled
Reference	internal quartz (deleted by Option 002)
Calibration Note	1 to 4 kHz resolution by band is the 8673 family method; confirm 8673A band table on the operating manual specification section
Operating Temperature Class	0 to 55 C
Spectral Purity Class	phase-locked loops optimized for low SSB phase noise
Related Later Model	8673B raises specified maximum power to plus 8 dBm to 18 GHz
Line Power Class	100/120/220/240 V
Manual Part Number Class	08673-90003 operating manual

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: 0 to 55 C
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Spectral Purity Class	phase-locked loops optimized for low SSB phase noise
Related Later Model	8673B raises specified maximum power to plus 8 dBm to 18 GHz
Line Power Class	100/120/220/240 V
Manual Part Number Class	08673-90003 operating manual Notes Numeric frequency and plus 1 to minus 120 dBm range are from HP 8673A synthesized signal generator product summaries and the 8673A operating manual coverage statement (2.0 to 26.0 GHz). Banded resolution and harmonic tables belong on the 8673A specification section of that manual.

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	
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 26.0 GHz
Output Level Range	plus 1 dBm to minus 120 dBm
Output Impedance	50 ohm
Modulation Types	AM, FM, and internally leveled pulse
Sweep	digital sweep
Remote Interface	HP-IB
Option 002: no internal reference Option 003: 400 Hz line only Option 005: rear panel RF output Option 006: chassis slide kit	
Specifications	
PARAMETER	VALUE
Architecture	YIG-tuned oscillator phase locked to quartz reference
Form Factor	benchtop microwave generator
Programming	front panel or rear HP-IB
Operating Context	microwave radar/EW and receiver test
Power	mains powered
Brand Lineage	HP / Agilent
Minimum Output Power	minus 120 dBm
Maximum Output Power	plus 1 dBm
Frequency Coverage Verified	2 to 26 GHz
Pulse Modulation	internally leveled
Reference	internal quartz (deleted by Option 002)
Calibration Note	1 to 4 kHz resolution by band is the 8673 family method; confirm 8673A band table on the operating manual specification section

PARAMETER	VALUE
Operating Temperature Class	0 to 55 C
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Notes

Numeric frequency and plus 1 to minus 120 dBm range are from HP 8673A synthesized signal generator product summaries and the 8673A operating manual coverage statement (2.0 to 26.0 GHz). Banded resolution and harmonic tables belong on the 8673A specification section of that manual.

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

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.