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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8673B Signal Generator

HP Agilent Keysight 8673B Synthesized Signal Generator 2 to 26 GHz The HP/Agilent 8673B is a full-performance synthesized microwave signal generator covering 2 to 26 GHz in four bands with 1 to 4 kHz resolution. OEM descriptions list minus 100 to plus 8 dBm to 18 GHz and plus 3 dBm from 18 to 26 GHz, with AM, FM, internally leveled pulse, digital sweep, and HP-IB. Microwave receiver selectivity, radar/EW pulse and simultaneous AM/FM/pulse environments, and automated 26 GHz source systems. Four-band 2 to 26 GHz coverage with 1 to 4 kHz resolution The HP/Agilent 8673B is a full-performance synthesized microwave signal generator covering 2 to 26 GHz in four bands with 1 to 4 kHz resolution. OEM descriptions list minus 100 to plus 8 dBm to 18 GHz and plus 3 dBm from 18 to 26 GHz, with AM, FM, internally leveled pulse, digital sweep, and HP-IB. Microwave receiver selectivity, radar/EW pulse and simultaneous AM/FM/pulse environments, and automated 26 GHz source systems. Four-band 2 to 26 GHz coverage with 1 to 4 kHz resolution Internally leveled pulse plus metered AM and six-range FM

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8673B is a fully programmable synthesized signal generator delivering microwave-band signal synthesis from 2.0 GHz to 26.5 GHz. Designed for radar, electronic warfare, and communication system testing, it combines frequency agility with exceptional

spectral purity and modulation versatility in a platform built for automated test environments.

Technical Specifications

Frequency Performance

Frequency range: 2.0 GHz to 26.5 GHz across 4 bands

Frequency resolution: 1 kHz

Fundamental oscillator: 2.0 to 6.6 GHz YIG-tuned

Frequency stability: $< 5 \times 10^{-8}$ per day

Output Characteristics

Maximum output: +8 dBm to 18 GHz; +3 dBm from 18 GHz to 26 GHz

Minimum output: -100 dBm

Output resolution: 0.1 dB (digital)

Output leveling: Internal and external calibration supported

Power flatness: Exceptional across full frequency range

Phase noise: Optimized via phase-locked loops

Harmonics: Typically 80 dB; rise/fall times < 50 ns; repetition 50 Hz to 1 MHz; minimum duty cycle < 0.0001

Sweep Functions

Digital sweep: Manual, auto, or single sweep modes

Sweep type: Start/stop or AF (span) sweep

Maximum points: 9999 per sweep

Dwell time: 1 to 255 ms configurable

Markers: 5 independent, settable frequency markers

Sweep outputs: 0 to +10 V ramp, 0.5 V/GHz ramp, Z-axis blanking/markers

Key Features

TTL-level external input for pulse modulation control

Option 008: +10 dBm output level

Tone marker and penlift sweep outputs for analog recording

Typical Applications

Radar system testing and validation

Electronic warfare (EW) signal simulation

Communication system characterization

Automated production test environments

8673B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	HP Agilent 8673A/B/C/D/E/G/H
Frequency Range	2 to 26 GHz
Frequency Bands	4
Frequency Resolution	1 to 4 kHz depending on band
Output Level to 18 GHz	minus 100 to plus 8 dBm
Output Level 18 to 26 GHz	plus 3 dBm maximum
Output Impedance	50 ohm
AM Rates	up to 100 kHz with front-panel meter
FM Peak Deviation	up to 10 MHz in six metered ranges
FM Rates	up to 10 MHz
Pulse Modulation	internally leveled
Simultaneous Modulation	AM, FM, and pulse
Sweep	digital sweep
Remote Interface	HP-IB
Architecture	YIG-tuned oscillator phase locked to quartz reference
Operating Temperature	0 to 55 C (8673E sheet states family temperature)
Power Class	100/120/220/240 V plus 5 percent minus 10 percent, 48 to 66 Hz, 400 VA max class of 8673E
Net Weight Class	29 kg (64 lb) class of 8673E
Dimensions Class	146 mmHby 425 mmWby 620 mmDclass of 8673E
Digital Sweep	identical family capability cited on 8673E sheet as identical to 8673B/C/D
Minimum Output Power	minus 100 dBm
Maximum Output Power to 18 GHz	plus 8 dBm
Reference	internal quartz crystal

PARAMETER	VALUE
Level Resolution Class	0.1 dB digital display class of the 8673 family
Programming	all functions except line switch
Maximum output power	to 18 GHz: plus 8 dBm

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C (8673E sheet states family temperature)
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Minimum Output Power	minus 100 dBm
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Level Resolution Class	0.1 dB digital display class of the 8673 family
Programming	all functions except line switch Notes Numeric rows from HP/Agilent 8673B synthesized signal generator OEM descriptions (2 to 26 GHz, 1 to 4 kHz resolution, minus 100 to plus 8 dBm to 18 GHz, plus 3 dBm to 26 GHz). General power/weight class rows that cite 8673E are marked as family-identical per the 8673E data sheet statement that digital sweep and HP-IB match 8673B/C/D.

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.

performance synthesized microwave signal generator covering 2 to 26 GHz in four bands with 1 to 4 kHz resolution. OEM descriptions list minus 100 to plus 8 dBm to 18 GHz and plus 3 dBm from 18 to 26 GHz, with AM, FM, internally leveled pulse, digital sweep, and HP-IB.

Applications

Microwave receiver selectivity, radar/EW pulse and simultaneous AM/FM/pulse environments, and automated 26 GHz source systems.

Key Features

Four-band 2 to 26 GHz coverage with 1 to 4 kHz resolution

Internally leveled pulse plus metered AM and six-range FM

Simultaneous AM, FM, and pulse

Digital sweep standard

Optional plus 10 dBm Option 008

Technical Specifications

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Output Level to 18 GHz	minus 100 to plus 8 dBm
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Output Impedance	50 ohm
AM Rates	up to 100 kHz with front-panel meter
FM Peak Deviation	up to 10 MHz in six metered ranges
FM Rates	up to 10 MHz
Pulse Modulation	internally leveled
Simultaneous Modulation	AM, FM, and pulse
Sweep	digital sweep
Remote Interface	HP-IB

Option 001: delete RF output attenuator

Option 002: delete reference oscillator

Option 004: rear panel RF output

Option 006: chassis slide kit

Option 008: plus 10 dBm output power

Specifications

PARAMETER	VALUE
Architecture	YIG-tuned oscillator phase locked to quartz reference
Operating Temperature	0 to 55 C (8673E sheet states family temperature)
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Level Resolution Class	0.1 dB digital display class of the 8673 family
Programming	all functions except line switch

Notes

Numeric rows from HP/Agilent 8673B synthesized signal generator OEM descriptions (2 to 26 GHz, 1 to 4 kHz resolution, minus 100 to plus 8 dBm to 18 GHz, plus 3 dBm to 26 GHz). General power/weight class rows that cite 8673E are marked as family-identical per the 8673E data sheet statement that digital sweep and HP-IB match 8673B/C/D.

Ordering Information

OPTION	DESCRIPTION
Option 008	Technical Specifications

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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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.