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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8673D Signal Generator

HP Agilent Keysight 8673D Synthesized Signal Generator 0.05 to 26 GHz The HP/Agilent 8673D is the widest 8673 family member, covering 0.05 to 26 GHz. OEM 8673C/8673D operating manual and 8673B/C/D catalog rows combine the 50 MHz low band of the 8673C with the 26 GHz high band of the 8673B, plus AM, FM, internally leveled pulse, and digital sweep. Broadband microwave ATE from 50 MHz to 26 GHz, radar/EW pulse environments, and single-box RF-to-Ka receiver stimulus. Family-identical digital sweep with 8673B/C The HP/Agilent 8673D is the widest 8673 family member, covering 0.05 to 26 GHz. OEM 8673C/8673D operating manual and 8673B/C/D catalog rows combine the 50 MHz low band of the 8673C with the 26 GHz high band of the 8673B, plus AM, FM, internally leveled pulse, and digital sweep. Broadband microwave ATE from 50 MHz to 26 GHz, radar/EW pulse environments, and single-box RF-to-Ka receiver stimulus. Family-identical digital sweep with 8673B/C Optional plus 10 dBm class Option 008 on the high-band 8673B column



MODEL

**Agilent / Keysight
8673D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8673D

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8673D is a synthesized microwave signal generator delivering precise frequency synthesis and modulation across 0.05 GHz to 26.5 GHz. Built around a YIG-tuned oscillator phase-locked to a 10 MHz quartz reference, it achieves frequency stability better than 5×10^{-7} per day with 1 kHz resolution. The instrument generates output power from +8 dBm to -100

dBm with harmonics suppressed below -60 dBc, making it suitable for radar, communications, and microwave subsystem characterization.

Technical Specifications

Frequency Performance

Frequency range: 0.05 GHz to 26.5 GHz with overrange capability
 Fundamental oscillator: 2.0 GHz to 6.6 GHz YIG-tuned, multiplied for broadband coverage
 Frequency resolution: 1 kHz
 Phase stability: Quartz crystal reference locking; frequency drift $< 5 \times 10^{-7}$ per day
 Phase noise: Optimized via phase-locked loops

Output Power

Output level range: 0 dBm to -100 dBm (2 GHz to 26 GHz); +10 dBm to -100 dBm (0.05 GHz to 2 GHz)
 Calibrated output power: +8 dBm to -100 dBm
 Output level resolution (remote): 0.1 dB
 Harmonics/subharmonics: < -60 dBc

Pulse Modulation

Peak power leveled to typically ± 1.5 dBm/-1.0 dBm relative to set CW level

Modulation & Control

Modulation types: AM, FM, Pulse (internally leveled)
 AM rates: Up to 100 kHz with front-panel metering
 FM: Six ranges; rates and peak deviations to 10 MHz
 Pulse modulation: Full-range internal leveling with calibrated peak power
 Simultaneous modulation: AM, FM, and Pulse applied together
 External control: AM depth and FM deviation via 1 V peak modulating input

Sweep Capability

Sweep modes: Manual, auto, or single
 Sweep types: Start/stop or AF (span)
 Frequency points: Maximum 9999 per sweep
 Dwell time: 1 to 255 ms per frequency
 Markers: Five independent, settable frequency markers
 Sweep outputs: 0 to +10 V ramp, 0.5 V/GHz ramp, Z-axis blanking, tone marker, penlift

Key Features

1 kHz frequency resolution across 0.05 to 26.5 GHz range
 Wide dynamic range: +8 dBm maximum to -100 dBm minimum output
 Low spurious and phase noise through optimized phase-locked architecture
 Flexible modulation: simultaneous AM, FM, and pulse control
 Programmable sweep with up to 9999 frequency points and independent markers
 Output attenuator option; rear-panel RF output available via option 004

Typical Applications

Microwave radar system testing and validation
 Communication system characterization
 Subsystem and component measurement where frequency stability is critical
 Receiver sensitivity and selectivity assessment
 Phase noise evaluation

Compatibility & Integration

Remote programming via 0.1 dB output level resolution supports automated test sequences.
 External modulation control accepts 1 V peak input for AM depth and FM deviation adjustment.
 Sweep outputs provide ramp voltage, marker outputs, and Z-axis blanking for integration with display and measurement systems.

8673D Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	HP Agilent 8673A/B/C/D/E/G/H
Frequency Range	0.05 to 26 GHz
Frequency Start versus 8673B	50 MHz versus 2 GHz
Frequency Stop versus 8673C	26 GHz versus 18.6 GHz
Frequency Resolution 2 to 26 GHz	1 to 4 kHz depending on band (8673B column)
Output Level to 18 GHz	minus 100 to plus 8 dBm (8673B column)
Output Level 18 to 26 GHz	plus 3 dBm maximum (8673B column)
Output Impedance	50 ohm
AM Rates	up to 100 kHz with front-panel meter (8673B column)
FM Peak Deviation	up to 10 MHz in six metered ranges (8673B column)
Pulse Modulation	internally leveled
Simultaneous Modulation	AM, FM, and pulse
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
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 mmDArchitecture: YIG-tuned oscillator phase locked to 10 MHz quartz
Level Resolution	0.1 dB digital display
Harmonics Class at plus 3 dBm	less than minus 40 dBc (8673E 2 to 18 GHz column)
Pulse On Off Class	greater than 70 dB (8673E column)
Pulse Rise Fall Typical	less than 50 ns

PARAMETER	VALUE
Pulse Repetition Frequency Class	50 Hz to 1 MHz
Programming	all functions except line switch
Reference	internal 10 MHz quartz

General Specifications & Supplementary Characteristics

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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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Reference	internal 10 MHz quartz

Option Class: 001 delete attenuator, 002 delete reference, 004 rear RF, 006 slides, 008 high power

Notes

Frequency range 0.05 to 26 GHz is the 8673D model row. High-band level and 1 to 4 kHz resolution reuse the OEM 8673B column; sweep/HP-IB/power reuse the 8673E sheet statement of identity with 8673B/C/D. Confirm 50 MHz to 2 GHz power on the 8673C/D operating manual specification table.

Ordering Information

OPTION	DESCRIPTION
Option 008	on the high-band 8673B column

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.