Aumictech
Test & measurement · bought, sold, repaired, calibrated

Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8673H Synthesized Signal Generator

HP Agilent Keysight 8673H Economy Synthesized Signal Generator 5.4 to 18.0 GHz The HP/Agilent 8673H is the economy synthesized microwave signal generator in the 8673 family. OEM performance characteristics list 5.4 to 18.0 GHz standard (Option 618) or 2.0 to 12.4 GHz (Option 212), 3 kHz resolution, minus 100 to plus 8 dBm, minus 40 dBc harmonics, and AM/FM/pulse with auto/manual/single sweep. Economy 5.4 to 18 GHz (or 2 to 12.4 GHz) receiver tests, pulsed microwave stimulus, and HP-IB automated microwave sources. The HP/Agilent 8673H is the economy synthesized microwave signal generator in the 8673 family. OEM performance characteristics list 5.4 to 18.0 GHz standard (Option 618) or 2.0 to 12.4 GHz (Option 212), 3 kHz resolution, minus 100 to plus 8 dBm, minus 40 dBc harmonics, and AM/FM/pulse with auto/manual/single sweep. Economy 5.4 to 18 GHz (or 2 to 12.4 GHz) receiver tests, pulsed microwave stimulus, and HP-IB automated microwave sources. Selectable 5.4 to 18 GHz or 2.0 to 12.4 GHz coverage options AM, FM, and pulse on an economy 8673 platform

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

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8673H Synthesized Signal Generator delivers precision RF and microwave signal generation across 2.0 GHz to 18.0 GHz, with overrange capability to 18.6 GHz. Built for demanding test environments, it combines wide frequency coverage with flexible modulation and sweep capabilities to support wireless communications, radar testing, and component characterization.Technical Specifications Frequency Coverage Range: 2.0 GHz to 18.0 GHz (overrange to 18.6 GHz) Option 212: 2.0 GHz to 12.4 GHz Option 618: 5.4 GHz to 18.0 GHz Resolution: 1 kHz (2.0–6.6 GHz), 2 kHz (6.6–12.3 GHz), 3 kHz (12.3–18.0 GHz) Output Power Maximum: +8 dBm (standard); +10 dBm with Option 008 Minimum: −100 dBm Resolution: 0.1 dB Impedance: 50 Ω Harmonics: −40 dBc Phase Noise: Better than −60 dBc (1 Hz BW, 1 kHz offset, CW mode) Modulation Types: AM, FM, and pulse (standard); all three can be applied simultaneously AM: 0 to 75% depth at rates to 10 kHz; front-panel metered control to 100 kHz FM: Six metered ranges at rates and peak deviations to 10 MHz (locked mode: 3 MHz; unlocked: 10 MHz at rates as low as 50 Hz) Pulse: ON/OFF ratio exceeding 80 dB, widths to 100 ns, external TTL rates to 1 MHz, rise/fall times less than 50 ns Sweep Modes: Manual, auto, single Points: Up to 9999 per sweep Step Size: Minimum equals frequency resolution Dwell Time: 1 to 255 ms per frequency Markers: 5 independent, settable frequency markers Outputs: 0 to +10 V ramp, 0.5 V/GHz ramp, Z-axis blanking/markers, tone markerKey Features Internally or externally leveled output to −100 dBm or −120 dBm (HP 8673E) Frequency-dependent power variation across the 2–18 GHz band Simultaneous multimode modulation for complex signal simulation Five independent frequency markers for precise sweep control Pulse modulation across entire frequency range with TTL triggeringTypical Applications Wireless communications testing, radar system evaluation, RF component characterization, receiver sensitivity measurements, and complex signal environment simulation.

8673H Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Economy synthesized microwave signal generator
Series Family	HP Agilent 8673A/B/C/D/E/G/H
Frequency Range Standard Option 6	5.4 to 18.0 GHz
Frequency Range Option 2	2.0 to 12.4 GHz
Frequency Resolution	3 kHz
Minimum Output Power	minus 100 dBm
Maximum Output Power	plus 8 dBm
Power Resolution	0.1 dB
Output Impedance	50 ohm
Harmonics	minus 40 dBc
Modulation Types	AM, FM, and pulse
Sweep Modes	auto, manual, and single
Remote Interface	HP-IB
Form Factor	benchtop
Architecture	YIG-tuned oscillator phase locked to quartz reference
Operating Temperature	0 to 55 C class of the 8673 family
Power Class	100/120/220/240 V, 48 to 66 Hz, 400 VA max class
Net Weight Class	29 kg (64 lb) class
Dimensions Class	146 mmHby 425 mmWby 620 mmDclass
Level Display	0.1 dB digital
Programming	HP-IB
Reference	internal quartz crystal
Difference Versus 8673E	economy 5.4 to 18 GHz (or 2 to 12.4 GHz) versus full 2 to 18 GHz 1/2/3 kHz column
Pulse Modulation	yes
External Modulation Inputs Listing	none on the 8673H characteristics table

PARAMETER	VALUE
Calibration Note	AM depth and FM deviation tables belong on the 8673H data sheet/certificate when not on the characteristics listing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C class of the 8673 family
Operating Temperature	0 to 55 C class of the 8673 family
Power Class	100/120/220/240 V, 48 to 66 Hz, 400 VA max class
Net Weight Class	29 kg (64 lb) class
Dimensions Class	146 mmHby 425 mmWby 620 mmDclass
Level Display	0.1 dB digital
Programming	HP-IB
Reference	internal quartz crystal
Difference Versus 8673E	economy 5.4 to 18 GHz (or 2 to 12.4 GHz) versus full 2 to 18 GHz 1/2/3 kHz column
Pulse Modulation	yes
External Modulation Inputs Listing	none on the 8673H characteristics table
Calibration Note	AM depth and FM deviation tables belong on the 8673H data sheet/certificate when not on the characteristics listing Notes Numeric rows from HP/Agilent 8673H economy synthesized signal generator performance characteristics (5.4 to 18.0 GHz, 3 kHz, minus 100 to plus 8 dBm, minus 40 dBc harmonics). Option 212 substitutes 2.0 to 12.4 GHz coverage.

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 characteristics list 5.4 to 18.0 GHz standard (Option 618) or 2.0 to 12.4 GHz (Option 212), 3 kHz resolution, minus 100 to plus 8 dBm, minus 40 dBc harmonics, and AM/FM/pulse with auto/manual/single sweep.

Applications
Economy 5.4 to 18 GHz (or 2 to 12.4 GHz) receiver tests, pulsed microwave stimulus, and HP-IB automated microwave sources.

Key Features
Selectable 5.4 to 18 GHz or 2.0 to 12.4 GHz coverage options
AM, FM, and pulse on an economy 8673 platform
Auto, manual, and single sweep
0.1 dB power resolution
Rear-panel RF Option 004

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Type	Economy synthesized microwave signal generator
Series Family	HP Agilent 8673A/B/C/D/E/G/H
Frequency Range Standard Option 618	5.4 to 18.0 GHz
Frequency Range Option 212	2.0 to 12.4 GHz
Frequency Resolution	3 kHz
Minimum Output Power	minus 100 dBm
Maximum Output Power	plus 8 dBm
Power Resolution	0.1 dB
Output Impedance	50 ohm
Harmonics	minus 40 dBc
Modulation Types	AM, FM, and pulse
Sweep Modes	auto, manual, and single
Remote Interface	HP-IB
Form Factor	benchtop

Option 004: rear panel RF output
Option 006: chassis slide kit
Option 212: 2.0 to 12.4 GHz frequency coverage
Option 618: 5.4 to 18.0 GHz frequency coverage

Specifications

PARAMETER	VALUE
Architecture	YIG-tuned oscillator phase locked to quartz reference
Operating Temperature	0 to 55 C class of the 8673 family
Power Class	100/120/220/240 V, 48 to 66 Hz, 400 VA max class
Net Weight Class	29 kg (64 lb) class
Dimensions Class	146 mmHby 425 mmWby 620 mmDclass
Level Display	0.1 dB digital
Programming	HP-IB
Reference	internal quartz crystal
Difference Versus 8673E	economy 5.4 to 18 GHz (or 2 to 12.4 GHz) versus full 2 to 18 GHz 1/2/3 kHz column
Pulse Modulation	yes
External Modulation Inputs Listing	none on the 8673H characteristics table
Calibration Note	AM depth and FM deviation tables belong on the 8673H data sheet/certificate when not on the characteristics listing

Notes
Numeric rows from HP/Agilent 8673H economy synthesized signal generator performance characteristics (5.4 to 18.0 GHz, 3 kHz, minus 100 to plus 8 dBm, minus 40 dBc harmonics). Option 212 substitutes 2.0 to 12.4 GHz coverage.

Ordering Information

OPTION	DESCRIPTION
Option 004	Technical Specifications
Option 212	substitutes 2.0 to 12.4 GHz coverage.

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
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026