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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8672S Synthesized Signal Generator

HP Agilent Keysight 8672S Synthesized Signal Generator System 2 to 18 GHz The HP/Agilent 8672S is the system configuration of the 8672 synthesized microwave generator, covering 2 to 18 GHz. OEM catalog listings treat 8672S as the 8672A-based system (with 86720A-class accessories in some configurations) providing synthesizer accuracy, calibrated level, AM/FM, and HP-IB inasystem package. Rack microwave ATE to 18 GHz, radar/EW stimulus systems, and HP-IB automated microwave source subsystems. 8672A-based 2 to 18 GHz synthesized system The HP/Agilent 8672S is the system configuration of the 8672 synthesized microwave generator, covering 2 to 18 GHz. OEM catalog listings treat 8672S as the 8672A-based system (with 86720A-class accessories in some configurations) providing synthesizer accuracy, calibrated level, AM/FM, and HP-IB inasystem package. Rack microwave ATE to 18 GHz, radar/EW stimulus systems, and HP-IB automated microwave source subsystems. 8672A-based 2 to 18 GHz synthesized system Calibrated level chain to minus 120 dBm class



MODEL

**Agilent / Keysight
8672S**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8672S

LISTING

<https://aumictechlabs.com/products/8672s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8672S Synthesized Signal Generator is a RF and microwave test instrument that combines the 8672A Synthesized Signal Generator with the 86720A Frequency Extension

Unit. This integrated system delivers precision signal generation across 10 MHz to 18.0 GHz with flexible modulation, extensive programmability, and exceptional output control.

Technical Specifications

Frequency Coverage: 10 MHz to 18.0 GHz

Output Power: 0.01–2.0 GHz: +13 dBm to –120 dBm 2.0–18.0 GHz: +2 dBm (or +7 dBm with Option 008) to –120 dBm

Level flatness degrades ± 0.25 dB relative to the 8672A

Frequency Tuning Resolution: Selectable via front panel – 100 MHz, 1 MHz, 10 kHz, or 1 kHz. At 1 kHz resolution: 1 kHz (2.0–6.2 GHz), 2 kHz (6.2–12.4 GHz), 3 kHz (12.4–18.599997 GHz)

Modulation Capability: AM, FM, and pulse modulation. Internal pulse modulator delivers high-quality pulse signals across the full 10 MHz to 18 GHz range with >80 dB ON/OFF ratio.

AM Depth: Selectable ranges of 30% and 100%, linearly variable with external voltage

FM Deviation: Five selectable ranges (0.03, 0.1, 0.3, 1.3, and 10 MHz), linearly variable with external voltage

Frequency Stability: Locked to internal 10 MHz reference or external 5/10 MHz oscillator

Leveling Control: Internal ALC for exceptionally flat output power; external leveling supported via diode detector or power meter

Phase-Locked Outputs: 10 MHz and 100 MHz available on rear panel

Key Features

Full HP-IB programmability for all functions except line switches and meter mode

Front panel meter displays output level, AM depth, or FM peak deviation

Low spurious signals and phase noise

Single 9-inch high package: 222 mm (H) × 425 mm (W) × 620 mm (D)

Typical Applications

Demanding RF and microwave testing, component characterization, and subsystem validation across L-, S-, C-, X-, and Ku-band frequencies.

Compatibility & Integration

Existing HP 8672A generators can be retrofitted to 8672S configuration using the 86720A Frequency Extension Unit and either an 11731A or 11732A Frequency Extension Retrofit Kit.

8672S Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator system
Series Family	HP Agilent 8672A/8672S
Frequency Range	2.0 to 18.0 GHz
Frequency Resolution	1 to 3 kHz depending on band (8672A column)
Timebase Aging	less than 5e-10 per day (8672A column)
Output Level Range	plus 3 dBm to minus 120 dBm (8672A column)
Output Level Option 0	plus 8 dBm
Output Level Flatness	less than 0.75 dB (8672A column)
SSB Phase Noise at 100 kHz Offset	minus 110 dBc/Hz (8672A column)
Nonharmonic Spurious	minus 70 dBc at specified power (8672A column)
Output Impedance	50 ohm
Output Connector	TypeNfemale class
Modulation Types	internal AM and FM
Remote Interface	HP-IB
Power Requirements	100, 120/220, 240 Vac plus 5 percent minus 10 percent, 48 to 66 Hz
Net Weight Class	27.2 kg (60 lb) 8672A generator
Dimensions Class	133 mmHby 425 mmWby 603 mmDOperating Temperature Class: 0 to 55 C
Form Factor	system/benchtop microwave source
Programming	HP-IB
Architecture	8672A synthesizer loops plus system packaging
Minimum Output Power	minus 120 dBm
Maximum Output Power Standard	plus 3 dBm
Reference	internal quartz crystal
Related Accessory Class	86720A-class system elements in some 8672S configurations

PARAMETER	VALUE
Calibration Note	use 8672A model column unless a 8672S-specific option changes level
Maximum output power	Standard: plus 3 dBm
Operating temperature	Class: 0 to 55 C

8672S Specifications

PARAMETER	VALUE
Applications	Rack microwave ATE to 18 GHz, radar/EW stimulus systems, and HP-IB automated microwave source subsystems.
Key Features	8672A-based 2 to 18 GHz synthesized system
Technical Specifications	Instrument Type: Synthesized microwave signal generator system

General Specifications & Supplementary Characteristics

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Operating temperature	Class: 0 to 55 C
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Maximum Output Power Standard	plus 3 dBm
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Related Accessory Class	86720A-class system elements in some 8672S configurations
Calibration Note	use 8672A model column unless a 8672S-specific option changes level Notes Numeric rows reuse the OEM 8672A specification column because 8672S is the 2 to 18 GHz system configuration of that generator. Confirm any 86720A leveling/accessory limits on the installed system option list/calibration certificate.

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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Notes

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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 ·
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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.