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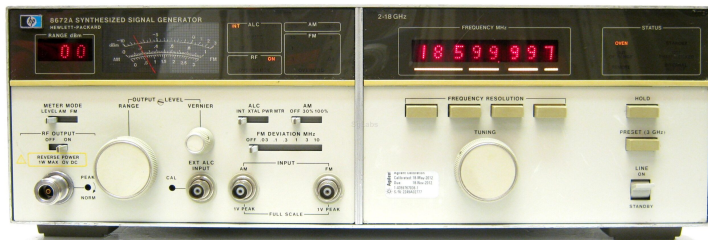
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8672A Synthesized Signal Generator

HP Agilent Keysight 8672A Synthesized Signal Generator 2.0 to 18.0 GHz The HP/Agilent 8672A is a synthesized microwave signal generator covering 2.0 to 18.0 GHz with a single output. OEM specifications list plus 3 dBm to minus 120 dBm calibrated level (plus 8 dBm with Option 008), 1 to 3 kHz resolution by band, internal AM and FM, and HP-IB control. Microwave receiver tests, radar/EW stimulus to 18 GHz, and automated HP-IB microwave source systems. Calibrated attenuator chain to minus 120 dBm The HP/Agilent 8672A is a synthesized microwave signal generator covering 2.0 to 18.0 GHz with a single output. OEM specifications list plus 3 dBm to minus 120 dBm calibrated level (plus 8 dBm with Option 008), 1 to 3 kHz resolution by band, internal AM and FM, and HP-IB control. Microwave receiver tests, radar/EW stimulus to 18 GHz, and automated HP-IB microwave source systems. Calibrated attenuator chain to minus 120 dBm Optional high-power Option 008 to plus 8 dBm



MODEL

**Agilent / Keysight
8672A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8672A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8672A is a synthesized signal generator delivering precision RF and microwave signals from 2.0 GHz to 18.0 GHz. Built for communication systems testing, radar development, and electronic warfare applications, it combines fast frequency switching with

exceptional signal purity and flexible modulation capabilities. Though now obsolete, the 8672A remains a capable platform for specialized test requirements demanding stable, low-noise signal generation across the upper microwave band.

Technical Specifications

Frequency Coverage & Resolution

Frequency Range (GHz)	Resolution (kHz)
2.0–6.2	1
6.2–12.4	2
12.4–18.599997	3

Frequency switching time: <20 ms within specified resolution across all bands

Output Power Standard: +3 dBm maximum; +8 dBm to -120 dBm calibrated and leveled output

Option 001: +10 dBm to -10 dBm

Option 4: +7 dBm to -120 dBm

Option 5: +9 dBm to -10 dBm

Option 008: raises maximum to +8 dBm

Output level flatness: <0.75 dB

Signal Quality

SSB phase noise at 100 kHz offset: -110 dBc/Hz

Sub-harmonics and multiples (Bands 1–3): <-25 dBc

Internal residual noise floor: 80 dB

ON/OFF ratio, <15 ns rise/fall times

Frequency Stability

Internal 10 MHz crystal reference oscillator

External 5 or 10 MHz oscillator compatible

Time base drift: $<5 \times 10^{-10}$ per day

Power & Physical Input: 100/120/220/240 V AC, $\pm 5\%$ /-10%, 48–66 Hz; max 400 VA

Dimensions: 425 mm (W) $\times$ 133 mm (H) $\times$ 603 mm (D); 27 kg net weight

Key Features

Internal automatic leveling control (ALC) maintains flat output across frequency and level ranges

External leveling via diode detector or power meter for remote load sensing

HP-IB remote programming of frequency, level, modulation, and ALC modes

Meter indication selectable for output level, AM depth, or FM peak deviation

Typical Applications

Communication system design and validation

Radar and EW system development

Microwave component characterization

Phase noise and spectral purity measurements

8672A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized microwave signal generator
Series Family	HP Agilent 8671A/8672A/8672S
Frequency Range	2.0 to 18.0 GHz
Frequency Resolution	1 to 3 kHz depending on band
Timebase Aging	less than 5e-10 per day
Output Level Range	plus 3 dBm to minus 120 dBm
Output Level Option 0	plus 8 dBm (plus 7 dBm note on some option texts)
Output Level Flatness	less than 0.75 dB
SSB Phase Noise at 100 kHz Offset	minus 110 dBc/Hz
Nonharmonic Spurious	minus 70 dBc at specified power
Output Impedance	50 ohm
Output Connector	TypeNfemale
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	27.2 kg (60 lb)
Dimensions	133 mmHby 425 mmWby 603 mmDOperating Temperature Class: 0 to 55 C laboratory microwave
Form Factor	System II benchtop
Programming	front panel or rear HP-IB
Architecture	four phase-locked loops plus YIG-tuned multiplier to 18 GHz
Minimum Output Power	minus 120 dBm
Maximum Output Power Standard	plus 3 dBm
Reference	internal quartz crystal
Calibration Note	band-by-band resolution is 1 kHz on the fundamental and increases in multiplied bands

PARAMETER	VALUE
Maximum output power	Standard: plus 3 dBm
Operating temperature	Class: 0 to 55 C laboratory microwave

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
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Programming	front panel or rear HP-IB
Architecture	four phase-locked loops plus YIG-tuned multiplier to 18 GHz
Minimum Output Power	minus 120 dBm
Maximum Output Power Standard	plus 3 dBm
Reference	internal quartz crystal
Calibration Note	band-by-band resolution is 1 kHz on the fundamental and increases in multiplied bands Notes Numeric rows from HP/Agilent 8672A synthesized signal generator specification summaries (2.0 to 18.0 GHz, plus 3 to minus 120 dBm, 1 to 3 kHz resolution, less than 5e-10 per day timebase). Overrange to 18.599 GHz is described in 8671A/8672A operating literature.

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 list plus 3 dBm to minus 120 dBm calibrated level (plus 8 dBm with Option 008), 1 to 3 kHz resolution by band, internal AM and FM, and HP-IB control.

Applications

Microwave receiver tests, radar/EW stimulus to 18 GHz, and automated HP-IB microwave source systems.

Key Features

Single-output 2 to 18 GHz coverage

Calibrated attenuator chain to minus 120 dBm

Optional high-power Option 008 to plus 8 dBm

Internal AM and FM

HP-IB programmable

Technical Specifications

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Series Family	HP Agilent 8671A/8672A/8672S
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Output Level Option 008	plus 8 dBm (plus 7 dBm note on some option texts)
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SSB Phase Noise at 100 kHz Offset	minus 110 dBc/Hz
Nonharmonic Spurious	minus 70 dBc at specified power
Output Impedance	50 ohm
Output Connector	TypeNfemale
Modulation Types	internal AM and FM
Remote Interface	HP-IB

Option 001: deletes RF output attenuator

Option 002: deletes reference oscillator

Option 003: 400 Hz line operation fan

Option 004: rear panel RF output, maximum output plus 2.0 dBm

Option 008: high power output module

Specifications

PARAMETER	VALUE
Power Requirements	100, 120/220, 240 Vac plus 5 percent minus 10 percent, 48 to 66 Hz
Net Weight	27.2 kg (60 lb)
Dimensions	133 mmHby 425 mmWby 603 mmD0 Operating Temperature Class: 0 to 55 C laboratory microwave
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Notes

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Ordering Information

OPTION	DESCRIPTION
Option 008	to plus 8 dBm

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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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.