


Aumictech

Test & measurement • bought, sold, repaired, calibrated

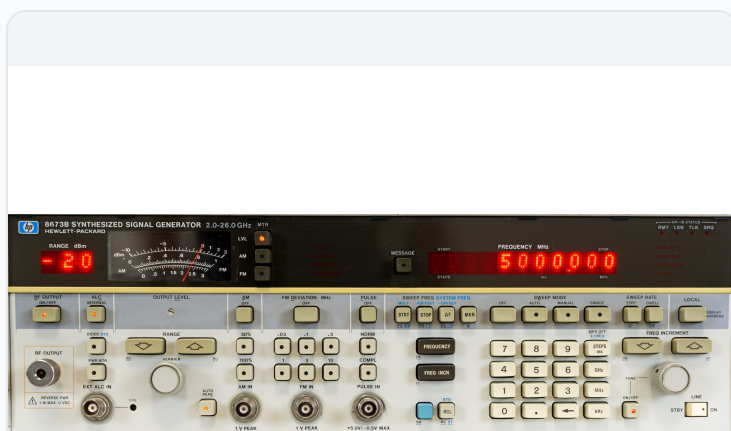
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8671B Synthesized CW Generator

HP Agilent Keysight 8671B Synthesized CW Generator 2 to 18 GHz The HP/Agilent 8671B is a synthesized CW microwave generator covering 2 to 18 GHz. OEM catalog listings group it with 8672A and 8673B/C/D/E as programmable synthesized microwave sources, providing synthesizer accuracy without the full AM/FM/pulse feature set of the 8672A/8673 signal-generator models. Microwave CW LO substitution, 2 to 18 GHz synthesizer racks, and automated HP-IB frequency-agile CW stimulus. Shared 8670-series YIG synthesizer architecture The HP/Agilent 8671B is a synthesized CW microwave generator covering 2 to 18 GHz. OEM catalog listings group it with 8672A and 8673B/C/D/E as programmable synthesized microwave sources, providing synthesizer accuracy without the full AM/FM/pulse feature set of the 8672A/8673 signal-generator models. Microwave CW LO substitution, 2 to 18 GHz synthesizer racks, and automated HP-IB frequency-agile CW stimulus. Shared 8670-series YIG synthesizer architecture CW-oriented counterpart to 8672A signal generator



MODEL

**Agilent / Keysight
8671B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8671B

LISTING

<https://aumictechlabs.com/products/8671b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8671B is a synthesized CW generator delivering precise signal generation from 2.0 to 18.0 GHz with selectable frequency resolution and calibrated output power. This

instrument excels in receiver testing, interference analysis, system calibration, and microwave local oscillator applications requiring stable, accurate continuous wave signals across a 128 dB dynamic range.

Technical Specifications

Frequency Coverage 2.0 to 18.0 GHz (18.6 GHz overrange) Band 1 (2.0–6.2 GHz): 1 kHz resolution Band 2 (6.2–12.4 GHz): 2 kHz resolution Band 3 (12.4–18.0 GHz): 3 kHz resolution

Output Performance Power range: +8 dBm to –120 dBm Calibrated output: +8 dBm Output impedance: 50 Ω nominal Dynamic range: 128 dB Level switching time: <20 ms (internally leveled); <10 ms (typical within one range) Output flatness at 0 dBm, 15–35°C: Band 1 (± 0.75 dB), Band 2 (± 1.00 dB), Band 3 (± 1.25 dB)

Signal Characteristics Low phase noise and low spurious signal content Automatic level control: internal leveling, diode leveling, or power meter leveling

Control & Interface Full HP-IB programmability for ATE integration Remote operation functions: SHI, AHI, T6, TEO, L4, LEO, SR1, RL0, PP2, DC1, DT0, CO, E1

Key Features Synthesized frequency control with choice of 1, 2, or 3 kHz resolution enables precise tuning across three bands. Fast output level switching and broad dynamic range accommodate demanding measurement scenarios. HP-IB remote control facilitates integration into automated test systems.

Typical Applications Receiver characterization, interference and susceptibility testing, system calibration, microwave downconversion and upconversion, intermediate frequency (IF) measurements with compatible noise figure and modulation analysis instruments.

Compatibility & Integration Designed to serve as a microwave local oscillator for frequency conversion tasks. Integrates with HP 8970A/B Noise Figure Meters and HP 8901A/B/8902A Modulation Analyzers for IF-based measurements. Broadband synthesizer architecture supports automated test system deployments.

Environmental & Physical Operating range: 0–55°C. Power: 100, 120, 220, 240 VAC ($\pm 5\%$, -10%), 48–66 Hz, 300 VA max. Dimensions: 133 × 425 × 603 mm. Net weight: 27 kg.

8671B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized CW microwave generator
Series Family	HP Agilent 8671B/8672A/8673
Frequency Range	2 to 18 GHz
Output Impedance	50 ohm
Remote Interface	HP-IB
Architecture	YIG-tuned oscillator phase locked to quartz reference
Modulation Emphasis	CW (signal-generator AM/FM/pulse is on 8672A/8673)
Form Factor	benchtop microwave synthesizer
Programming	HP-IB
Operating Context	microwave CW LO and synthesizer racks
Power	mains powered
Brand Lineage	HP / Agilent
Related Signal Generator	8672A adds calibrated AM/FM and plus 3 to minus 120 dBm leveling
Frequency Coverage Verified	2 to 18 GHz
Synthesizer Class	programmable microwave frequency synthesizer
Reference	internal quartz crystal reference
Output Path	single microwave output
Calibration Note	exact power, resolution, and SSB phase noise belong on the 8671B data sheet/certificate
Operating Temperature Class	laboratory microwave environment
Spectral Purity Class	phase-locked YIG synthesizer
Sweep Class	digital/synthesizer sweep depending on firmware
Connector Class	microwave front panel output
Line Power Class	100/120/220/240 V microwave instrument mains
Difference Versus 8671A	extends coverage from 6.2 GHz to 18 GHz
Difference Versus 8672A	CW generator versus full signal generator

PARAMETER	VALUE
Operating temperature	Class: laboratory microwave environment

8671B Specifications

PARAMETER	VALUE
Applications	Microwave CW LO substitution, 2 to 18 GHz synthesizer racks, and automated HP-IB frequency-agile CW stimulus.
Key Features	2 to 18 GHz synthesized CW coverage
Technical Specifications	Instrument Type: Synthesized CW microwave generator

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory microwave environment
Operating Temperature	Class: laboratory microwave environment
Operating Temperature Class	laboratory microwave environment
Spectral Purity Class	phase-locked YIG synthesizer
Sweep Class	digital/synthesizer sweep depending on firmware
Connector Class	microwave front panel output
Line Power Class	100/120/220/240 V microwave instrument mains
Difference Versus 8671A	extends coverage from 6.2 GHz to 18 GHz
Difference Versus 8672A	CW generator versus full signal generator Notes 2 to 18 GHz coverage is from HP catalog grouping of the 8671B Synthesized CW Generator with 8672A/8673 synthesized sources. Calibrated level, resolution, and spectral-purity numbers belong on the 8671B OEM data sheet/calibration certificate and should not be copied from 8672A without that sheet.

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	
Specifications	
PARAMETER	VALUE
Instrument Type	Synthesized CW microwave generator
Series Family	HP Agilent 8671B/8672A/8673
Frequency Range	2 to 18 GHz
Output Impedance	50 ohm
Remote Interface	HP-IB
Architecture	YIG-tuned oscillator phase locked to quartz reference
Modulation Emphasis	CW (signal-generator AM/FM/pulse is on 8672A/8673)
Form Factor	benchtop microwave synthesizer
Programming	HP-IB
Operating Context	microwave CW LO and synthesizer racks
Power	mains powered
Brand Lineage	HP / Agilent
Related Signal Generator	8672A adds calibrated AM/FM and plus 3 to minus 120 dBm leveling
Frequency Coverage Verified	2 to 18 GHz
Synthesizer Class	programmable microwave frequency synthesizer
Reference	internal quartz crystal reference
Output Path	single microwave output
Calibration Note	exact power, resolution, and SSB phase noise belong on the 8671B data sheet/certificate
Operating Temperature Class	laboratory microwave environment
Spectral Purity Class	phase-locked YIG synthesizer
Sweep Class	digital/synthesizer sweep depending on firmware
Connector Class	microwave front panel output
Line Power Class	100/120/220/240 V microwave instrument mains
Difference Versus 8671A	extends coverage from 6.2 GHz to 18 GHz
Difference Versus 8672A	CW generator versus full signal generator

Notes

2 to 18 GHz coverage is from HP catalog grouping of the 8671B Synthesized CW Generator with 8672A/8673 synthesized sources. Calibrated level, resolution, and spectral-purity numbers belong on the 8671B OEM data sheet/calibration certificate and should not be copied from 8672A without that sheet.

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

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