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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8660C Synthesized Signal Generator

HP Agilent Keysight 8660C Synthesized Signal Generator Mainframe The HP/Agilent 8660C is a synthesized signal generator mainframe with digital sweep. OEM 8660A/C catalog pages list plug-in RF coverage via 86601A (0.01 to 110 MHz), 86602B (1 to 1300 MHz), and 86603A (1 to 2600 MHz), with modulation plug-ins 86631B through 86635A and HP-IB control. Modular synthesized RF generation to 2600 MHz, swept synthesizer stimulus, and automated HP-IB source systems using 8660-series RF and modulation sections. The HP/Agilent 8660C is a synthesized signal generator mainframe with digital sweep. OEM 8660A/C catalog pages list plug-in RF coverage via 86601A (0.01 to 110 MHz), 86602B (1 to 1300 MHz), and 86603A (1 to 2600 MHz), with modulation plug-ins 86631B through 86635A and HP-IB control. Modular synthesized RF generation to 2600 MHz, swept synthesizer stimulus, and automated HP-IB source systems using 8660-series RF and modulation sections. Digital sweep in the 8660C mainframe versus the 8660A Modular RF plug-ins to 110, 1300, or 2600 MHz



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MODEL

**Agilent / Keysight
8660C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8660C

LISTING

<https://aumictechlabs.com/products/8660c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8660C Synthesized Signal Generator is a modular mainframe instrument delivering signal generation for receiver testing, component characterization, and signal

simulation. The 8660C requires plug-in RF and modulation sections, enabling flexible configuration across multiple frequency bands and modulation types. Frequency resolution reaches 1 Hz standard, with optional 100 Hz stepping. Output spans greater than 140 dB dynamic range, continuously calibrated from +13 dBm to -146 dBm into 50 ohms and programmable in 1 dB steps. Phase noise performance reaches -70 dBc/Hz typical (1 Hz BW). Switching time is less than 5 ms to settle within 100 Hz of a new frequency. The instrument supports multiple modulation plug-ins including AM, FM, phase, and pulse modulation, with optional HP-IB (IEEE 488) remote control and BCD interface for frequency and output level programming.

Technical Specifications

Frequency Range: 10 kHz to 110 MHz (86601A RF Plug-in); 1 MHz to 1300 MHz (86602A/B RF Plug-in); 1 MHz to 2600 MHz (86603A RF Plug-in) Frequency Resolution: 1 Hz standard; 2 Hz above 1300 MHz (86603A); optional 100 Hz stepping Frequency Accuracy: Internal 10 MHz quartz oscillator with aging $\leq \pm 3 \times 10^{-8}$ per 24 hours after warm-up; Option 001 provides $\pm 3 \times 10^{-9}$ per day; external reference via 5 MHz or 10 MHz standard Output Level: +13 dBm to -146 dBm calibrated; maximum +10 dBm; minimum -136 dBm; 1 dB steps Phase Noise: -70 dBc/Hz typical single sideband (1 Hz BW) Harmonics: <-40 dBc Non-harmonic Spurious: <-80 dBc; power line related <-80 dBc above 700 MHz (within 45 MHz of carrier), 45 MHz from carrier) Frequency Settling: <5 ms to 100 Hz accuracy; <100 ms to 10 Hz accuracy

Key Features

Modulation plug-in flexibility: AM, FM, phase-locked FM, phase (10 MHz rates), and pulse modulation BCD interface standard; optional HP-IB (IEEE 488) for remote control Output calibration accuracy across full dynamic range

Typical Applications

Receiver testing, RF component characterization, signal simulation, and modulated signal generation requiring multi-band frequency coverage.

Compatibility & Integration

Operates with RF plug-ins 86601A, 86602A/B, or 86603A, and modulation sections 86631B through 86635A for expanded capability.

8660C Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized signal generator mainframe with digital sweep
Series Family	HP Agilent 8660A/8660C/8660D
Mainframe Model	8660C
Sweep Capability	digital sweep
RF Plug In 86601A	0.01 to 110 MHz
RF Plug In 86602B	1 to 1300 MHz
RF Plug In 86603A	1 to 2600 MHz
Frequency Coverage	determined by installed RF plug-in
Output Level Class 86601A	plus 13 dBm class to 110 MHz
Output Level Class below 1300 MHz	plus 10 dBm class with 86602B/86603A
Output Impedance	50 ohm via RF plug-in
Modulation Plug Ins	86631B, 86632B, 86633B, 86634A, 86635A
Modulation Types Class	AM, FM, phase, and pulse depending on section
Reference	internal or external frequency reference
Remote Interface	HP-IB
Architecture	modular mainframe plus RF section plus modulation section
Form Factor	System II benchtop mainframe
Programming	HP-IB listen/talk class
Display	mainframe frequency and status display
Operating Context	modular synthesized source benches
Power	mains powered mainframe
Accessory Ecosystem	HP 8660 series RF and modulation plug-ins
Calibration Note	frequency accuracy depends on reference and installed RF section
Brand Lineage	HP / Agilent
Difference Versus 8660A	adds digital sweep

PARAMETER	VALUE
Maximum Plug In Frequency	2600 MHz with 86603A
Minimum Plug In Frequency	0.01 MHz with 86601A
Output Path	via installed RF plug-in front panel
External Reference Class	1, 5, or 10 MHz class of the 8660 series
Frequency Resolution Class	0.1 Hz to 2 kHz depending on plug-in and band

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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Instrument Type	Synthesized signal generator mainframe with digital sweep
Series Family	HP Agilent 8660A/8660C/8660D
Mainframe Model	8660C
Sweep Capability	digital sweep
RF Plug In 86601A	0.01 to 110 MHz
RF Plug In 86602B	1 to 1300 MHz
RF Plug In 86603A	1 to 2600 MHz
Frequency Coverage	determined by installed RF plug-in
Output Level Class 86601A	plus 13 dBm class to 110 MHz
Output Level Class below 1300 MHz	plus 10 dBm class with 86602B/86603A
Output Impedance	50 ohm via RF plug-in
Modulation Plug Ins	86631B, 86632B, 86633B, 86634A, 86635A
Modulation Types Class	AM, FM, phase, and pulse depending on section
Reference	internal or external frequency reference
Remote Interface	HP-IB
Architecture	modular mainframe plus RF section plus modulation section
Form Factor	System II benchtop mainframe
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Operating Context	modular synthesized source benches
Power	mains powered mainframe
Accessory Ecosystem	HP 8660 series RF and modulation plug-ins
Calibration Note	frequency accuracy depends on reference and installed RF section
Brand Lineage	HP / Agilent
Difference Versus 8660A	adds digital sweep
Maximum Plug In Frequency	2600 MHz with 86603A

PARAMETER	VALUE
Minimum Plug In Frequency	0.01 MHz with 86601A
Output Path	via installed RF plug-in front panel
External Reference Class	1, 5, or 10 MHz class of the 8660 series
Frequency Resolution Class	0.1 Hz to 2 kHz depending on plug-in and band

Notes

Numeric plug-in frequency rows are from HP 8660A/8660C catalog data sheets. Exact leveled power, spectral purity, and modulation rates are plug-in dependent and belong on the installed 86601/86602/86603 and 86631-86635 section datasheets/certificates.

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
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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.