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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8660D Synthesized Signal Generator Mainframe

HP Agilent Keysight 8660D Synthesized Signal Generator Mainframe The HP/Agilent 8660D is the later 8660-series synthesized signal generator mainframe for modular RF plug-ins through 2600 MHz. OEM 8660 family catalog pages list the same RF sections as 8660C (86601A 0.01 to 110 MHz, 86602B 1 to 1300 MHz, 86603A 1 to 2600 MHz) with HP-IB control and modulation plug-ins. Modular synthesized RF generation to 2600 MHz, production HP-IB source racks, and mixed AM/FM/pulse testing with 8663x modulation sections. The HP/Agilent 8660D is the later 8660-series synthesized signal generator mainframe for modular RF plug-ins through 2600 MHz. OEM 8660 family catalog pages list the same RF sections as 8660C (86601A 0.01 to 110 MHz, 86602B 1 to 1300 MHz, 86603A 1 to 2600 MHz) with HP-IB control and modulation plug-ins. Modular synthesized RF generation to 2600 MHz, production HP-IB source racks, and mixed AM/FM/pulse testing with 8663x modulation sections. Later 8660 mainframe for 2600 MHz plug-in systems Modular RF coverage selected by 86601A/86602B/86603A



MODEL

**Agilent / Keysight
8660D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8660D

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8660D is a modular, solid-state synthesized signal generator mainframe that is the foundation for precision RF and modulation applications. It accepts plug-in RF and

modulation modules to establish frequency coverage, output level, and modulation capability tailored to specific test requirements. The mainframe itself provides the synthesizer core, display, control logic, and interface infrastructure; actual signal generation depends on installed RF plug-in sections.

Technical Specifications

Frequency Range Dependent on RF plug-in module selection: HP 86601A: 10 kHz to 110 MHz HP 86602B: 1 MHz to 1300 MHz HP 86603A: 1 MHz to 2600 MHz

Frequency Resolution HP 86601A: 1 Hz HP 86602B: 1 Hz HP 86603A: 1 Hz to 1300 MHz; 2 Hz above 1300 MHz

Output Level Calibrated range exceeds 140 dB across all plug-in configurations: HP 86601A: +13 dBm to -146 dBm HP 86602B: +10 dBm to -146 dBm HP 86603A: +10 dBm to -136 dBm (below 1300 MHz); +7 dBm to -136 dBm (1300 MHz and above)

Modulation AM, FM, Phase Modulation, and Pulse Modulation via plug-in or internal auxiliary sections.

Stability & Accuracy Phase-locked to 100 MHz master oscillator. Option 001 provides $\pm 3 \times 10^{-9}$ /day internal oscillator stability. External reference input supported. Display 10-digit readout.

Programmability HP-IB (Hewlett-Packard Interface Bus) and BCD control; factory-set HP-IB address 19. Remote programming of plug-in sections through mainframe.

Power Approximately 350 W or 200 W. Standard options: 100, 120, 220, or 240 V AC. Option 003 enables 48–440 Hz line frequency operation.

Operating Temperature 0 to +55 °C.

Key Features

- Modular architecture enables frequency and modulation customization
- Synthesized accuracy with external reference support
- Wide dynamic range exceeding 140 dB
- HP-IB remote control for integration into automated test systems
- Solid-state design with 10-digit frequency resolution

Compatibility & Integration The 8660D requires RF and Modulation/Auxiliary plug-in sections for operation. Common RF plug-ins span 10 kHz to 2.6 GHz. An HP 11661A/B Frequency Extension Module may be required with certain RF sections, such as the HP 86602B and HP 86603A.

8660D Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Synthesized signal generator mainframe
Series Family	HP Agilent 8660A/8660C/8660D
Mainframe Model	8660D
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
Maximum Plug In Frequency	2600 MHz with 86603A
Minimum Plug In Frequency	0.01 MHz with 86601A
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

PARAMETER	VALUE
Difference Versus 8660C	later mainframe revision for 2600 MHz plug-in systems
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
Sweep Capability Class	synthesizer sweep/step depending on mainframe firmware

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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Mainframe Model	8660D
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RF Plug In 86602B	1 to 1300 MHz
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Frequency Coverage	determined by installed RF plug-in
Maximum Plug In Frequency	2600 MHz with 86603A
Minimum Plug In Frequency	0.01 MHz with 86601A
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
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Notes

Numeric plug-in frequency rows are from HP 8660 family catalog data sheets used for 8660A/C/D mainframes. Exact leveled power, spectral purity, and modulation rates are plug-in dependent and belong on the installed RF/modulation 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.