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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8620C Sweeper Mainframe

HP Agilent 8620C Sweep Oscillator Mainframe The HP 8620C is the mainframe for HP 86200-series solid-state RF plug-ins covering 10 MHz to 22 GHz. OEM 8620 Series catalog specifications list 0.01 to 100 s sweep time, three calibrated markers, FULL/MARKER/CW-delta-F/CW sweep functions, optional HP-IB frequency programming (Option 011), and approximately 140 W line power. Swept scalar and 8410-family network analysis, signal simulation, and multi-band YIG-tuned stimulus with 86200 plug-ins. Up to four plug-in bands selected byaband lever The HP 8620C is the mainframe for HP 86200-series solid-state RF plug-ins covering 10 MHz to 22 GHz. OEM 8620 Series catalog specifications list 0.01 to 100 s sweep time, three calibrated markers, FULL/MARKER/CW-delta-F/CW sweep functions, optional HP-IB frequency programming (Option 011), and approximately 140 W line power. Swept scalar and 8410-family network analysis, signal simulation, and multi-band YIG-tuned stimulus with 86200 plug-ins. Up to four plug-in bands selected byaband lever Calibrated delta-F sweeps of 1 percent, 10 percent, or 100 percent of band



MODEL

**Agilent / Keysight
8620C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8620C

LISTING

<https://aumictechlabs.com/products/8620c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8620C Sweeper Mainframe is a swept-signal source platform designed to operate with 86200 Series plug-in RF modules for RF testing and characterization. The mainframe provides multiple sweep modes Full Sweep, Marker Sweep, ΔF Sweep, and CW - with three

markers for frequency identification and trigger options including Auto, Line, and External. A front panel band-select lever controls up to four frequency bands and their associated scales. Technical Specifications Frequency programming is available via analog control (standard) or optional HP-IB (IEEE 488) digital interface for remote automation. Digital programming delivers 10,000-point CW resolution over the band of interest. The mainframe supports internal 1 kHz AM modulation with external AM and FM capability dependent on the RF unit, plus phase-lock operation. RF blanking automatically gates RF output off during retrace and holds it until the next sweep start when enabled. Sweep output appears at a front panel BNC connector as a direct-coupled sawtooth signal coincident with the RF output. A display output provides a direct-coupled rectangular pulse at approximately -5.0 volts, timed with RF blanking. Pen-lift output is available for compatibility with positive-supply X-Y recorders. Key Features Four selectable frequency bands with individual scales Three independent markers (START, STOP, CW) for precise frequency control Flexible sweep triggering: Auto, Line, and External modes Optional HP-IB interface (Option 011) for digital frequency programming and system integration Direct sweep and display outputs for recorder and measurement system connection Phase-lock and modulation capabilities (internal AM, external AM/FM) Typical Applications Microwave system characterization, network analyzer integration, automated RF measurement setups, and frequency response testing where stable swept-signal generation is required. Compatibility & Integration Compatible with 86200 Series plug-in RF modules and network analyzer systems including the 8410B/8411A. The optional HP-IB interface supports SH0, AH1, T0, L2, SR0, RL2, PP0, DC0, DT0, C0, E1 functions for remote control and frequency programming.

8620C Characteristics / Specifications

PARAMETER	VALUE
Model	8620C
Instrument Type	Sweep oscillator mainframe
Series Family	HP 8620 Series
Sweep Functions	FULL SWEEP, MARKER SWEEP, CW / delta F, and CW
DeltaFRanges	zero to 1 percent, zero to 10 percent, or zero to 100 percent of frequency band
Cw Vernier Ranges	zero to approximately 0.5 percent or zero to approximately 5 percent of full bandwidth
Frequency Markers	three constant-width markers, START, STOP, and CW
Marker Output	rectangular pulse, typically minus 5 V peak, Z-axis BNC, source impedance approximately 1000 ohm
Sweep Modes	auto, manual, and external
Sweep Time	continuously adjustable from 0.01 to 100 seconds
Sweep Triggers	line, internal, external, and single
Sweep Output	direct-coupled sawtooth, zero to approximately +10 V
Blanking Pulse Positive	approximately +5.0 V coincident with RF blanking
Blanking Pulse Negative	approximately minus 5.0 V coincident with RF blanking
Hpib Option	Option 011 digital frequency programming
Hpib Interface Functions Option 0	SH0, AH1, T0, L2, SR0, RL2, PP0, DC0, DT0, C0, E1
Remote Band Select	three binary contact-closure lines on rear panel
Programming Resolution Option 0	10000 points in three digital-control modes
Line Power	100, 120, 220, or 240 V +5 minus 10 percent, 50 to 400 Hz
Power Consumption	approximately 140 watts
Weight Net Without Plugin	11.1 kg
Weight Shipping Without Plugin	13.4 kg
Dimensions	132.6 mmHx 425 mmWx 337 mmDFurnished Power Cable Length: 2.29 m

PARAMETER	VALUE
Cw Vernier Scale Length Equivalent	effective dial scale 7.5 metres with vernier
Modulation Paths	external AM, FM, and phase-lock; internal square-wave AM
Rf Blanking	RF off during retrace when blanking switch enabled
Bandwidth	Frequency Markers: three constant-width markers, START, STOP, and CW

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 0.01 to 100 s sweep time, three calibrated markers, FULL/MARKER/CW-delta-F/CW sweep functions, optional HP-IB frequency programming (Option 011), and approximately 140 W line power.

Applications

Swept scalar and 8410-family network analysis, signal simulation, and multi-band YIG-tuned stimulus with 86200 plug-ins.

Key Features

Up to four plug-in bands selected byaband lever

Three independently adjustable markers

Calibrated delta-F sweeps of 1 percent, 10 percent, or 100 percent of band

Optional HP-IB digital frequency programming

Works with 8350B via 11869A when using 86200 plug-ins

Technical Specifications

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Blanking Pulse Positive	approximately +5.0 V coincident with RF blanking
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Remote Band Select	three binary contact-closure lines on rear panel
Programming Resolution Option 011	10000 points in three digital-control modes

PARAMETER	VALUE
Line Power	100, 120, 220, or 240 V +5 minus 10 percent, 50 to 400 Hz
Power Consumption	approximately 140 watts
Weight Net Without Plugin	11.1 kg
Weight Shipping Without Plugin	13.4 kg
Dimensions	132.6 mmHx 425 mmWx 337 mmDFurnished Power Cable Length: 2.29 m
Cw Vernier Scale Length Equivalent	effective dial scale 7.5 metres with vernier
Modulation Paths	external AM, FM, and phase-lock; internal square-wave AM
Rf Blanking	RF off during retrace when blanking switch enabled

Notes

Numeric rows from HP 8620 Series Sweep Oscillators catalog, 8620C Specifications and General. Frequency range, accuracy, and power are determined by the installed RF plug-in.

Ordering Information

OPTION	DESCRIPTION
Option 011	digital frequency programming

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

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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.