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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 8350B Sweep Oscillator Mainframe for 83500 series plug-in functions

HP / Agilent 8350B Sweep Oscillator Mainframe The HP 8350B is the microprocessor-controlled sweep oscillator mainframe for 83500-series RF plug-ins covering 10 MHz to 40 GHz depending on the installed unit. It adds five calibrated markers, marker delta and marker sweep, nine nonvolatile save/recall states, alternate sweep, and full HP-IB programmability. With the 11869A adapter it also hosts many 86200-series plug-ins. RF frequency, power, and harmonics are defined by the plug-in, not the mainframe alone. The HP 8350B is the microprocessor-controlled sweep oscillator mainframe for 83500-series RF plug-ins covering 10 MHz to 40 GHz depending on the installed unit. It adds five calibrated markers, marker delta and marker sweep, nine nonvolatile save/recall states, alternate sweep, and full HP-IB programmability. With the 11869A adapter it also hosts many 86200-series plug-ins. RF frequency, power, and harmonics are defined by the plug-in, not the mainframe alone. Broadband scalar and network analyzer stimulus with 835xx plug-ins; CW and swept microwave ATE; locked-sweep work with 5343A/5344S; dual-range alternate-sweep comparisons.



MODEL

HP / Agilent 8350B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8350B

LISTING

<https://aumictechlabs.com/products/8350b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 8350B Sweep Oscillator Mainframe is a microprocessor-controlled RF and microwave signal source accepting 83500 series plug-in modules (and 86200 series with adapter) to generate swept or continuous wave (CW) frequency signals across diverse frequency ranges. The mainframe delivers direct-coupled sawtooth sweep outputs from 0 to approximately +10 V concurrent with swept RF output, with sweep times continuously adjustable from 10 ms to 100 seconds. It supports multiple sweep modes - internal, line-triggered, external trigger, and single - plus manual frequency adjustment with 980-point resolution across the selected sweep width. Full HP-IB (IEEE-488) programmability enables automated test environments, while nonvolatile memory retains instrument state, HP-IB address, and up to nine front-panel settings across power cycles. Technical Specifications Operating Temperature: 0°C to +55°C Power Requirements: 100, 120, 220, or 240 VAC $\pm 10\%$, 50 to 60 Hz (Option 400: 60 to 400 Hz); approximately 270 VA with RF plug-in unit Dimensions: 425 mm (W) $\times$ 133.3 mm (H) $\times$ 422 mm (D) Net Weight: 16.5 kg (without RF plug-in unit) Shipping Weight: 22.7 kg (without RF plug-in unit) Safety Classification: Class I with protective earthing terminal Key Features Sweep output: 0 V at sweep start, approximately +10 V at sweep end, independent of sweep width Manual sweep resolution: 0.1% of selected sweep width (980 discrete points) External sweep control via 0 to +10 V ramp input External trigger input: $> +2$ VDC, > 0.5 μ s duration, < 1 MHz frequency capability CW and SHIFT CW modes with proportional DC output Start/Stop frequency selection with STOP $\geq$ START requirement Microprocessor control with extensive marker capabilities and digital display Compatibility & Integration Accepts full range of 83500 series RF plug-in modules and 86200 series modules with adapter. Integrates with network analyzers, counters, and power meters for systematic test configurations.

Features & description

From manufacturer datasheet

Features

- Hosts HP 83500-series RF plug-ins (and 86200 via 11869A)
- Five independent calibrated markers; marker delta and marker sweep
- Nine nonvolatile front-panel save/recall registers
- Alternate sweep between live and stored states
- Full HP-IB control of all front-panel functions except line power
- Compatible with 8510 VNA and 8757A scalar systems

8350B Characteristics / Specifications

PARAMETER	VALUE
Model	8350B
Manufacturer	Hewlett Packard / Agilent
Instrument Type	Sweep oscillator mainframe
Family	8350 Series
Alias	HP 8350B; Agilent 8350B
CF Resolution	0.00038 percent (262144 points across band)
DeltaFResolution Full Band	0.1 percent of full band (1024 points)
DeltaFResolution Eighth Band	0.012 percent of band
DeltaFResolution Sixty Fourth Band	0.0015 percent of band
Display Resolution Frequency	5 digits
CW Resolution	same as CF
Vernier Range	up to 0.05 percent of RF plug-in band
Vernier Resolution	4 ppm (64 points between CW points)
Frequency Markers	5 independently adjustable calibrated markers
Marker Resolution	0.4 percent of selected sweep width (256 points per sweep)
Sweep Time Range	10 ms to 100 s continuously adjustable
Sweep Output	direct-coupled sawtooth 0 to approximately +10 V
Internal AM Square Wave	27.8 kHz or 1 kHz selectable
Save Recall Registers	9 complete front-panel states
Nonvolatile Memory	retains registers, HP-IB address, and current state
HPIB Interface Functions	SH1 AH1 T6 L4 SR1 RL1 PP0 DC1 DT1 C0 E1
Operating Temperature	0 C to +55 C
Line Voltage	100 120 220 or 240 V plus/minus 10 percent
Line Frequency	50 to 60 Hz (Option 400: 60 to 400 Hz)
Power Consumption Approx	270 VA including RF unit (catalog); some support sheets list about 375 VA including plug-in

PARAMETER	VALUE
Net Weight Without RF Unit	16.5 kg (36.4 lb)
Shipping Weight Without RF Unit	22.7 kg (50 lb)
Dimensions	425 mmWx 133.3 mmHx 422 mmDA Adapter For 86200 Plugins: 11869A
Related Predecessor	8350A

General Specifications & Supplementary Characteristics

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Related Predecessor	8350A Notes Mainframe rows from HP 8350B catalog/data sheet. Frequency coverage, leveled power, connectors, and harmonics are plug-in dependent—use the installed 835xx (or adapted 862xx) datasheet for RF specifications.

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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Option 803: 5343A interface cables

Related Predecessor: 8350A

Notes

Mainframe rows from HP 8350B catalog/data sheet. Frequency coverage, leveled power, connectors, and harmonics are plug-in dependent-use the installed 835xx (or adapted 862xx) datasheet for RF specifications.

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.