


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 8340A Synthesized Sweeper, 10 MHz to 26.5 GHz

Keysight Agilent HP 8340A Synthesized Sweeper 10 MHz to 26.5 GHz The HP/Agilent/Keysight 8340A is a synthesized sweep generator covering 10 MHz to 26.5 GHz. It combines synthesizer accuracy with broadband sweep-oscillator versatility under HP-IB control, enabling one instrument to replace a sweeper, counter, and microwave synthesizer in many manual and automatic microwave test systems. The HP/Agilent/Keysight 8340A is a synthesized sweep generator covering 10 MHz to 26.5 GHz. It combines synthesizer accuracy with broadband sweep-oscillator versatility under HP-IB control, enabling one instrument to replace a sweeper, counter, and microwave synthesizer in many manual and automatic microwave test systems.



MODEL

**Agilent / Keysight
8340A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8340A

LISTING

<https://aumictechlabs.com/products/8340a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8340A is a synthesized sweeper delivering precise RF and microwave signal generation from 10 MHz to 26.5 GHz. This instrument combines synthesizer and broadband sweep capabilities, enabling both manual and automatic test system integration. Fast frequency switching, low phase noise, and flexible modulation support make it ideal for communication equipment development and microwave subsystem characterization. Technical Specifications Frequency Coverage Range: 10 MHz to 26.5 GHz Start frequency: 10 MHz to 26.4999999 GHz

Stop frequency: 10.0001 MHz to 26.5 GHz Resolution: 1 Hz to 4 Hz (band-dependent) Output Power Range: +10 dBm to -110 dBm Calibrated across full range Modulation Capabilities AM modulation: DC-coupled, 100 kHz 3 dB bandwidth, minimum 90% depth Pulse modulation: >80 dB ON/OFF ratio, <25 ns rise and fall times, 100 ns minimum pulse width Simultaneous AM and pulse modulation supported Sweep Performance Analog sweep: 100 Hz to full frequency range Sweep rates: 100 Hz to full range bandwidth CW switching time: <50 ms (typical <35 ms); fast phase lock mode reduces to <20 ms typical (11-22 ms range) Signal Quality Time base: 10 MHz internal quartz oven Residual FM (CW): $n \times 5$ MHz: $<n \times 25$ kHz rms Low spurious content and phase noise characteristicKey Features Harmonic multiplication support (multiplication factors 1-4) HP-IB remote control interface Configurable output (front or rear panel; attenuator options) Optional pulse modulation deletion and phase noise relaxationTypical Applications Communication system development and validation Microwave component and subsystem testing Network analyzer integration and swept-frequency measurementCompatibility & Integration Direct compatibility with HP 8510, 8756A/57A, 8410, and 8755 network analyzer systems. Rackmount slide kit available. Physical dimensions: 24 × 20 × 16 inches; weight: 50 lbs.

Features & description

From manufacturer datasheet

Features

- Frequency coverage 10 MHz to 26.5 GHz • Frequency resolution 1 to 4 Hz depending on band • Calibrated output about plus 10 dBm to -110 dBm • Pulse and AM modulation capability • Sweep from 100 Hz widths to full band • HP-IB (GPIB) full remote control

Applications

- Broadband synthesized microwave sweep 10 MHz to 26.5 GHz • Network analyzer source for scalar and vector systems • ATE microwave stimulus with HP-IB automation • Pulse and AM modulated microwave component testing

8340A Characteristics / Specifications

PARAMETER	VALUE
Model	8340A
Manufacturer	Keysight / Agilent / Hewlett Packard
Instrument Type	Synthesized Sweeper
Alias	8340A; HP 8340A; Agilent 8340A; Keysight 8340A
Frequency range	10 MHz to 26.5 GHz
Frequency resolution	1 to 4 Hz depending on frequency
Minimum sweep width class	100 Hz
Maximum sweep width	full frequency range
Calibrated output high	about plus 10 dBm
Calibrated output low	-110 dBm
Pulse modulation	yes (deletable Option 006)
AM modulation	yes
Phase noise	low spurious and phase noise class
Pulse width capability	100 ns class
Remote control	HP-IB IEEE-488
Related interface cable	Option 850 for HP 8410B/C
Form	full rack microwave sweeper synthesizer
Primary use	manual and automatic microwave test systems
Replaces instruments class	sweeper; frequency counter; RF synthesizer; microwave synthesizer
Spurious performance	low spurious class
Network analyzer suitability	ideal for NA systems
Frequency low end	10 MHz
Frequency high end	26.5 GHz
Output dynamic range class	about 120 dB from max to -110 dBm
Publication class	HP Agilent 8340A synthesized sweeper documentation Notes Specs from HP/Agilent/Keysight 8340A synthesized sweeper product listings

PARAMETER

VALUE

(10 MHz–26.5 GHz). Confirm attenuator options (001/004/005), pulse Option 006 deletion, and Option 007 phase-noise relaxation on the unit.

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
Model	8340A
Manufacturer	Keysight / Agilent / Hewlett Packard
Instrument Type	Synthesized Sweeper
Alias	8340A; HP 8340A; Agilent 8340A; Keysight 8340A
Frequency range	10 MHz to 26.5 GHz
Frequency resolution	1 to 4 Hz depending on frequency
Minimum sweep width class	100 Hz
Maximum sweep width	full frequency range
Calibrated output high	about plus 10 dBm
Calibrated output low	-110 dBm
Pulse modulation	yes (deletable Option 006)
AM modulation	yes
Phase noise	low spurious and phase noise class
Pulse width capability	100 ns class
Remote control	HP-IB IEEE-488
Option 001: front panel RF output without attenuator	
Option 004: rear panel RF output with attenuator	
Option 005: rear panel RF output without attenuator	
Option 006: delete pulse modulation	
Option 007: relaxed phase noise specifications	
Specifications	
PARAMETER	VALUE
Related interface cable	Option 850 for HP 8410B/C
Form	full rack microwave sweeper synthesizer
Primary use	manual and automatic microwave test systems
Replaces instruments class	sweeper; frequency counter; RF synthesizer; microwave synthesizer
Spurious performance	low spurious class

PARAMETER	VALUE
Network analyzer suitability	ideal for NA systems
Frequency low end	10 MHz
Frequency high end	26.5 GHz
Output dynamic range class	about 120 dB from max to -110 dBm
Publication class	HP Agilent 8340A synthesized sweeper documentation

Notes
Specs from HP/Agilent/Keysight 8340A synthesized sweeper product listings (10 MHz-26.5 GHz). Confirm attenuator options (001/004/005), pulse Option 006 deletion, and Option 007 phase-noise relaxation on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 850	for HP 8410B/C
Option 006	deletion, and Option 007 phase-noise relaxation on the unit.

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 13, 2026

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