

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

AGILENT / KEYSIGHT

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

Form: full rack microwave sweeper synthesizer Dimensions class: about 188 mmHx 426 mmWx 610 mmD Weight class: about 75 lb Related interface cable: Option 850 for HP 8410B/C Specs from HP/Agilent/Keysight 8340B 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. Dimensions class: about 188 mmHx 426 mmWx 610 mmD Weight class: about 75 lb Related interface cable: Option 850 for HP 8410B/C Specs from HP/Agilent/Keysight 8340B 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.



MODEL

**Agilent / Keysight
8340B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8340B

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent / Keysight 8340B is a synthesized sweeper providing precise microwave signal generation across 10 MHz to 26.5 GHz. This instrument delivers 0.1 Hz frequency resolution, tuning in under 10 ms, and output power spanning -127 dBm to +13 dBm with ± 1.0 dB accuracy. Phase noise performance reaches -100 dBc/Hz at 10 kHz offset across the frequency range, while spurious signals remain below -60 dBc. The unit supports AM, FM, and pulse modulation with

flexible sweep modes - frequency, power, and list - enabling rapid characterization of microwave components and systems.

Technical Specifications

Frequency Performance

Frequency Range: 10 MHz to 26.5 GHz

Frequency Resolution: 0.1 Hz steps

Tuning Speed: < 10 ms (typical, full range)

Output Power

Power Range: -127 dBm to +13 dBm (typical)

Power Accuracy: ± 1.0 dB across specified range and frequency

Power Flatness: ± 0.5 dB/10 GHz (typical)

Output Impedance: 50 Ohms

Spectral Purity

Phase Noise: < -100 dBc/Hz at 10 kHz offset (1 GHz and 10 GHz carriers)

Harmonic Distortion: < -30 dBc (typical, above -10 dBm output power)

Spurious Signals: 80 dB on/off ratio, 100 ns to CW width, < 20 ns rise/fall time

Sweep Characteristics

Modes: Frequency, Power, List

Sweep Time: 1 ms to 1000 s

Step Size: Programmable

Key Features

50 Ohm output for direct coupling to test circuits

Warm-up time under 30 minutes

HP-IB (IEEE 488) remote control interface

Operating temperature range: 0°C to 55°C

Typical Applications

Radar transmitter and receiver characterization

Satellite communications uplink and downlink simulation

Wireless infrastructure component testing

Compatibility & Integration

The 8340B integrates with Agilent and HP test systems via IEEE 488 control, supporting standard instrument control languages and drivers for automated test environments.

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 +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

8340B Characteristics / Specifications

PARAMETER	VALUE
Model	8340B
Manufacturer	Keysight / Agilent / Hewlett Packard
Instrument Type	Synthesized Sweeper
Alias	8340B; HP 8340B; Agilent 8340B; Keysight 8340B
Frequency range	10 MHz to 26.5 GHz
Frequency resolution	1 to 4 Hz depending on frequency band
Minimum sweep width class	100 Hz
Maximum sweep width	full frequency range
Calibrated output high	about +10 dBm
Calibrated output low	-110 dBm
Output level resolution	0.1 dB
Long term stability	about 1×10^{-9} per day
CW switching time typical	better than 35 ms
CW switching with phase lock	11 to 22 ms depending on step
Spurious output	less than or equal to -60 dBc class
Pulse modulation	yes (deletable Option 006)
AM modulation	yes
FM modulation	yes
Phase noise	low spurious and phase noise class
Pulse width capability	100 ns class
Remote control	HP-IB IEEE-488
RF connector	APC-3.5 male
Form	full rack microwave sweeper synthesizer
Dimensions class	about 188 mmHx 426 mmWx 610 mmDWeight class: about 75 lb
Related interface cable	Option 850 for HP 8410B/C Notes Specs from HP/Agilent/Keysight 8340B synthesized sweeper product listings (10 MHz–26.5 GHz).

PARAMETER

VALUE

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
RF connector	APC-3.5 male
Form	full rack microwave sweeper synthesizer
Dimensions class	about 188 mm H x 426 mm W x 610 mm D
Weight class	about 75 lb
Related interface cable	Option 850 for HP 8410B/C
Specifications	
PARAMETER	VALUE
Model	8340B
Manufacturer	Keysight / Agilent / Hewlett Packard
Instrument Type	Synthesized Sweeper
Alias	8340B; HP 8340B; Agilent 8340B; Keysight 8340B
Frequency range	10 MHz to 26.5 GHz
Frequency resolution	1 to 4 Hz depending on frequency band
Minimum sweep width class	100 Hz
Maximum sweep width	full frequency range
Calibrated output high	about +10 dBm
Calibrated output low	-110 dBm
Output level resolution	0.1 dB
Long term stability	about 1 x 10 ⁻⁹ per day
CW switching time typical	better than 35 ms
CW switching with phase lock	11 to 22 ms depending on step
Spurious output	less than or equal to -60 dBc class
Pulse modulation	yes (deletable Option 006)
AM modulation	yes
FM modulation	yes

PARAMETER	VALUE
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
RF connector	APC-3.5 male
Form	full rack microwave sweeper synthesizer
Dimensions class	about 188 mmHx 426 mmWx 610 mmDWeight class: about 75 lb
Related interface cable	Option 850 for HP 8410B/C

Notes
Specs from HP/Agilent/Keysight 8340B 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.