

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 8443B TRACKING GEN

The HP/Agilent 8443B is a tracking generator accessory for companion HP spectrum analyzers, providing a swept RF source locked to the analyzer tune for stimulus-response measurements. OEM tracking-generator literature describes leveled output for scalar network style measurements across the companion analyzer frequency span. Filter and amplifier scalar response tests, cable and component insertion-loss sweeps, and spectrum-analyzer based stimulus-response measurements. Function: Swept RF source locked to spectrum analyzer. Export Classification Class: Commercial RF accessory class. Use Case: Stimulus response with spectrum analyzer. Manufacturer Brand Path: HP Agilent Keysight legacy. From HP 8443A/8443B tracking generator documentation. Confirm exact frequency band and output level on the matching spectrum analyzer pairing sheet.



MODEL

HP / Agilent 8443B

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8443B

LISTING

<https://aumictechlabs.com/products/8443b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 8443B Tracking Generator is a dual-function instrument that generates swept RF signals synchronized with spectrum analyzer tuning while providing integrated frequency measurement capabilities. The unit delivers tracking generator output from 100 kHz to 110 MHz at 50 Ohms impedance, with amplitude control spanning -120 dBm to +10 dBm. Front-panel controls offer 10 dB and 1 dB stepped attenuation plus continuous vernier adjustment for precise level setting. Amplitude flatness remains within ± 0.5 dB across the full frequency range, with absolute

accuracy of ± 0.3 dB at 0 dBm and 30 MHz. Technical Specifications RF Output: 100 kHz to 110 MHz, 50 Ohms, AC coupled via BNC connector Output Level: -120 dBm to +10 dBm with ± 0.5 dB flatness Amplitude Accuracy: ± 0.3 dB (absolute at 0 dBm, 30 MHz); attenuator: 10 dB steps ± 0.2 dB, 1 dB steps ± 0.1 dB; vernier: 1.2 dB continuous Frequency Resolution: <10 Hz Time Base Accuracy: $<3 \times 10^{-9}$ per day after warmup (0.3 Hz/day) Time Base Temperature Drift: $<3 \times 10^{-8}$ (3 Hz) over 0–55°C range Power: 115 V or 230 V, 48–440 Hz, 75 W active / 30 W standby Operating Temperature: 0 to 55°C; Storage: -40 to +75°C Dimensions: 16 × 14 × 10 inches; Weight: ~25 lbs

Key Features Integrated 7-digit frequency counter (plus 1 overrange digit) covering 100 kHz to 110 MHz Counter resolution selectable at 1 kHz (1 mS gate), 100 Hz (10 mS gate), or 10 Hz (100 mS gate) Counter accuracy: ± 1 count $\pm$ time base accuracy Three counter modes: Track Analyzer Mode, Restore Mode, and Scan Hold Mode External counter input: 10 kHz to 120 MHz, 50 Ohms, -10 to +25 dBm Digital frequency output in 8,4,2,1 code format Time base input: 1 MHz, 40 Ohms, 1 Vrms minimum Typical Applications Frequency response characterization of RF filters and amplifiers Insertion loss and gain measurements Component alignment and alignment verification Swept impedance analysis in conjunction with compatible spectrum analyzers Compatibility & Integration Designed for use with HP/Agilent spectrum analyzers such as the 8553B, providing automatic frequency tracking during swept measurements at analyzer marker positions.

8443B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Tracking generator
Function	Swept RF source locked to spectrum analyzer
RF Impedance Class	50 ohms class
Output Type	Leveled tracking output class
Form Factor	Benchtop accessory generator
Series Family	HP 8443B
Companion Instruments Class	HP spectrum analyzers of matching band class
Primary Power Class	AC mains
Operating Temperature Class	Laboratory ambient class
Warmup Class	Per operating manual
Calibration Interval Class	One year class
Frequency Coverage Class	Matches companion analyzer band class
Output Connector Class	TypeNclass
Amplitude Control Class	Front panel level control class
Remote Interface Class	Limited or none on basic tracking generators class
Harmonic Content Class	Specified on unit datasheet class
Spurious Class	Specified on unit datasheet class
Weight Class	Benchtop accessory weight class
Export Classification Class	Commercial RF accessory class
Related Model	8443A predecessor class
Use Case	Stimulus response with spectrum analyzer
Manufacturer Brand Path	HP Agilent Keysight legacy
Operating temperature	Class: Laboratory ambient class

8443B Specifications

PARAMETER	VALUE
HP Agilent 8443B Tracking Generator	Overview
Benchtop tracking generator form	50 ohm RF interface class
Technical Specifications	Instrument Type: Tracking generator

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: Laboratory ambient class
Operating Temperature	Class: Laboratory ambient class
Operating Temperature Class	Laboratory ambient class
Warmup Class	Per operating manual
Calibration Interval Class	One year class
Frequency Coverage Class	Matches companion analyzer band class
Output Connector Class	TypeNclass
Amplitude Control Class	Front panel level control class
Remote Interface Class	Limited or none on basic tracking generators class
Harmonic Content Class	Specified on unit datasheet class
Spurious Class	Specified on unit datasheet class
Weight Class	Benchtop accessory weight class
Export Classification Class	Commercial RF accessory class
Related Model	8443A predecessor class
Use Case	Stimulus response with spectrum analyzer
Manufacturer Brand Path	HP Agilent Keysight legacy Notes From HP 8443A/8443B tracking generator documentation. Confirm exact frequency band and output level on the matching spectrum analyzer pairing sheet.

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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Manufacturer Brand Path	HP Agilent Keysight legacy
Notes	
From HP 8443A/8443B tracking generator documentation. Confirm exact frequency band and output level on the matching spectrum analyzer pairing sheet.	

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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NIST-traceable calibration · SAM registered ·
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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.