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Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 8443A TRACK GEN/COUNT

The HP 8443A is a tracking generator designed for use with HP 8553B/8552A spectrum-analyzer configurations, covering 100 kHz to 110 MHz. OEM product summaries list leveled output from -120 dBm to +10 dBm for stimulus-response and frequency-response measurements with the companion analyzer. Used for swept frequency-response testing of filters, amplifiers, and IF circuits, tracking the analyzer LO for stimulus-response measurements, and lab alignment of RF circuits within 100 kHz–110 MHz. Tracking generator matched to HP 8553B RF section and 8552A IF section Analyzer mainframe family: HP 140 or 141 series Stimulus type: leveled tracking RF output Primary measurement role: frequency response Level and frequency limits are from HP/Agilent 8443A product specification summaries. Full flatness and residual FM figures should be taken from the original tracking-generator operating note when denser RF accuracy rows are required.



MODEL

HP / Agilent 8443A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8443A

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The HP/Agilent 8443A is a dual-function test instrument combining a tracking generator and frequency counter in a single 3U chassis. The tracking generator produces CW signals from 100 kHz to 110 MHz with amplitude control from -120 dBm to +10 dBm, synchronizing output frequency to an external spectrum analyzer for swept-frequency device characterization. The integrated frequency counter measures signals across the same 100 kHz to 110 MHz range with

selectable resolution down to 10 Hz, plus external signal measurement capability to 120 MHz. Five operational modes Marker, Track Analyzer, Restore Signal, External, and Scan Hold - accommodate diverse RF and microwave testing workflows. Amplitude flatness of ± 0.5 dB and absolute accuracy of ± 0.3 dB at 0 dBm/30 MHz enable reliable component alignment in telecommunications, aerospace, and defense environments. Technical Specifications Tracking Generator Frequency range: 100 kHz to 110 MHz Amplitude range: -120 dBm to +10 dBm (10 dB and 1 dB step attenuators plus 1.2 dB vernier) Amplitude flatness: ± 0.5 dB Absolute amplitude accuracy: ± 0.3 dB (at 0 dBm, 30 MHz) Output impedance: 50 ohms, BNC connector, AC coupled Reflection coefficient: ≤ 0.09 (1.2 SWR) with output < 0 dBm Modulation: Continuous Wave (CW) Frequency Counter Measurement range: 100 kHz to 110 MHz (internal); 10 kHz to 120 MHz (external) Resolution: 1 kHz (1 ms), 100 Hz (10 ms), 10 Hz (100 ms gate time) Accuracy: ± 1 count $\pm$ time base accuracy Time base aging: $< 3 \times 10^{-9}$ per day (post-warmup) Time base temperature drift: $< 3 \times 10^{-8}$ (0 to 55°C) Digital output: 8,4,2,1 BCD code, positive logic Environmental & Power Operating temperature: 0 to 55°C Storage temperature: -40 to +75°C Power input: 100/120/220/240 V $\pm 10\%$, 48-440 Hz Power consumption: 75 W typical; 30 W standby Dimensions: 18-3/4" L $\times$ 16-3/4" W $\times$ 3-7/8" H (476 $\times$ 425 $\times$ 98 mm) Weight: 24 lbs 5 oz (11.02 kg) EMI: Meets or exceeds MIL-I-6181D Key Features Five operation modes for marker, tracking, signal restoration, external measurement, and scan-hold functions Counter input accepts ± 10 dBm to +25 dBm signals at 50 ohms Switchable resolution and gate time for precision frequency measurement 1 MHz time base reference input/output (40 ohms, 1 Vrms minimum) Typical Applications RF/microwave component alignment, frequency response characterization, signal source verification, and swept transmission measurements in conjunction with spectrum analyzers. Compatibility & Integration Designed for integration with HP/Agilent spectrum analyzers including the 8553B and 8552A models via direct tracking and marker mode synchronization.

8443A Characteristics / Specifications

PARAMETER	VALUE
Minimum frequency	100 kHz
Maximum frequency	110 MHz
Minimum output level	–120 dBm
Maximum output level	+10 dBm
Compatible RF section	HP 8553B
Compatible IF section	HP 8552A
Instrument type	tracking generator
Frequency span class	100 kHz to 110 MHz
Dynamic output span	130 dB (–120 to +10 dBm)
Primary system role	stimulus for spectrum analyzer response tests
Output control	leveled tracking output
Host analyzer family	HP 140/141 series with 8553/8552
Application band	LF to VHF
Form factor	plug-in companion generator
Output level span	130 dB from minimum to maximum
Tracking mode	tracks companion spectrum analyzer LO
System RF section	8553B
System IF section	8552A
Analyzer mainframe family	HP 140 or 141 series
Stimulus type	leveled tracking RF output
Primary measurement role	frequency response
Lower band edge	0.1 MHz
Upper band edge	110 MHz

8443A Specifications

PARAMETER	VALUE
HP Agilent 8443A Tracking Generator	Overview
Key Features	Tracking generator matched to HP 8553B RF section and 8552A IF section
Technical Specifications	Minimum frequency: 100 kHz

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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Notes	
Level and frequency limits are from HP/Agilent 8443A product specification summaries. Full flatness and	

residual FM figures should be taken from the original tracking-generator operating note when denser RF accuracy rows are required.

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.