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Data Sheet

August 8, 2026

AGILENT

HP / Agilent 5344S Microwave Source Synchronizer System

HP / Agilent 5344S Microwave Source Synchronizer System The HP 5344S Microwave Source Synchronizer System pairs the 5344A source synchronizer with an HP 5342A or 5343A microwave frequency counter to phase-lock and stabilize microwave sweep oscillators (e.g. HP 8350B family) from 500 MHz to 18 GHz with 1 Hz resolution. Operating modes include CW lock, CW/ Δ F sweep, and Start/Stop sweep (manual or auto lock), with up to four settable frequency markers across the sweep band. Frequency-stable microwave source locking for scalar/network measurements; locked sweeps with 8350B-class sweepers; precise CW microwave frequency control; marker-assisted swept measurements; radar and communications microwave test setups. The HP 5344S Microwave Source Synchronizer System pairs the 5344A source synchronizer with an HP 5342A or 5343A microwave frequency counter to phase-lock and stabilize microwave sweep oscillators (e.g. HP 8350B family) from 500 MHz to 18 GHz with 1 Hz resolution. Operating modes include CW lock, CW/ Δ F sweep, and Start/Stop sweep (manual or auto lock), with up to four settable frequency markers across the sweep band. Frequency-stable microwave source locking for scalar/network measurements; locked sweeps with 8350B-class sweepers; precise CW microwave frequency control; marker-assisted swept measurements; radar and communications microwave test setups.

No photo

MODEL

Agilent 5344S

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

5344S

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

Features & description

From manufacturer datasheet

Features

- System: 5344S = 5344A synchronizer + 5342A/5343A counter
- Frequency coverage: 500 MHz to 18 GHz
- Resolution: 1 Hz
- Modes: CW (manual/auto lock); CW/ Δ F sweep (manual/auto lock); Start/Stop sweep (manual/auto lock)
- Markers: up to 4 frequency markers in CF/ Δ F and Start/Stop modes
- Locks compatible microwave sweep oscillators (8350B class and similar)
- Interfaces for sweep in/out and lock status with companion instruments (e.g. 8756A scalar setups)
- Counter-based frequency measurement with synchronizer phase-lock control

5344S Characteristics / Specifications

PARAMETER	VALUE
Model	5344S
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Microwave Source Synchronizer System
Family	HP 5344 Microwave Synchronizer
Alias	HP 5344S; Agilent 5344S; 5344A + 5342A/5343A Frequency / Lock 500 MHz–18 GHz; 1 Hz; CW and locked sweep modes Operational Notes Prefer HP 5344S operating instructions. Confirm whether the system includes 5342A or 5343A counter and verify sweeper interface cables. Distinct from stand-alone 5344A without counter.
System	5344S = 5344A synchronizer + 5342A/5343A counter
Frequency coverage	500 MHz to 18 GHz
Resolution	1 Hz
Modes	CW (manual/auto lock); CW/ Δ F sweep (manual/auto lock); Start/Stop sweep (manual/auto lock)
Markers	up to 4 frequency markers in CF/ Δ F and Start/Stop modes

5344S Specifications

PARAMETER	VALUE
HP / Agilent 5344S Microwave Source Synchronizer System	Overview
Key Features	- System: 5344S = 5344A synchronizer + 5342A/5343A counter
Technical Specifications	Model: 5344S
Frequency / Lock	500 MHz–18 GHz; 1 Hz; CW and locked sweep modes

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	5344S
Manufacturer	Hewlett-Packard / Agilent
Instrument Type	Microwave Source Synchronizer System
Family	HP 5344 Microwave Synchronizer
Alias	HP 5344S; Agilent 5344S; 5344A + 5342A/5343A

Frequency / Lock

500 MHz–18 GHz; 1 Hz; CW and locked sweep modes

Operational Notes

Prefer HP 5344S operating instructions. Confirm whether the system includes 5342A or 5343A counter and verify sweeper interface cables. Distinct from stand-alone 5344A without counter.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NAICS 423690 · 811210 · 541380
Generated August 8, 2026

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