

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 8, 2026

HP / AGILENT

Hewlett Packard HP 8751A Network Analyzer System 5Hz-500MHz WITH OPTION 001

Hewlett Packard HP 8751A Network Analyzer System 5Hz-500MHz WITH OPTION 001 The HP 8751A is a baseband/IF/RF network analyzer covering 5 Hz to 500 MHz with lab precision and high measurement throughput. It provides 0.001 Hz, 0.001 dB, 0.001°, and 10 ps resolution for characterizing linear behavior of passive and active networks. Option 001 adds a high-stability frequency reference (± 1.0 ppm accuracy; $\pm 2.5 \times 10^{-9}$ h typical stability). Dedicated 50/75 Ω S-parameter and T/R test sets plus 1 M Ω input adapters are available. The HP 8751A is a baseband/IF/RF network analyzer covering 5 Hz to 500 MHz with lab precision and high measurement throughput. It provides 0.001 Hz, 0.001 dB, 0.001°, and 10 ps resolution for characterizing linear behavior of passive and active networks. Option 001 adds a high-stability frequency reference (± 1.0 ppm accuracy; $\pm 2.5 \times 10^{-9}$ h typical stability). Dedicated 50/75 Ω S-parameter and T/R test sets plus 1 M Ω input adapters are available. Baseband through RF component characterization; filter, amplifier, and matching-network analysis; production high-throughput S-parameter and T/R test; conjugate matching analysis; automated HP-IB / IBASIC test.

No photo

MODEL

HP / Agilent 8751A

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

8751A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Frequency: 5 Hz to 500 MHz
- Resolution: 0.001 Hz; 0.001 dB; 0.001°; 10 ps
- Frequency accuracy: ± 20 ppm standard; ± 1.0 ppm with Opt 001
- Opt 001 stability: $\pm 2.5 \times 10^{-9}$ / 8 hours typical (23 $\pm$ 5 °C)
- Dynamic accuracy: ± 0.02 dB, $\pm 0.12^\circ$ class
- Full 2-port and interpolative calibration
- Throughput: 10 updates of 201 points/s; 0.4 ms/point list sweep (IFBW 4 kHz)
- Up to 4 simultaneous traces; 8 markers per channel
- Built-in 1.44 MB disk for save/recall; color display
- Opt 002: HP Instrument BASIC + 1 MB RAM
- Compatible: 87511A/B S-parameter sets; 87512A/B T/R kits; 41802A 1 M Ω adapter

8751A Characteristics / Specifications

PARAMETER	VALUE
Model	8751A with Option 001
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Network Analyzer System
Family	HP 8751A
Alias	HP 8751A Opt 001; 8751A-001 RF / Performance 5 Hz–500 MHz; Opt 001 high-stability reference Operational Notes Prefer HP 8751A catalog page. Confirm installed test set (87511/87512) and Opt 001/002 on unit. System performance depends on attached test set.
Frequency	5 Hz to 500 MHz
Resolution	0.001 Hz; 0.001 dB; 0.001°; 10 ps
Frequency accuracy	±20 ppm standard; ±1.0 ppm with Opt 001
Opt 001 stability	±2.5×10 ^{−9} / 8 hours typical (23±5 °C)
Dynamic accuracy	±0.02 dB, ±0.12° class
Throughput	10 updates of 201 points/s; 0.4 ms/point list sweep (IFBW 4 kHz)
Opt 002	HP Instrument BASIC + 1 MB RAM
Compatible	87511A/B S-parameter sets; 87512A/B T/R kits; 41802A 1 MΩ adapter

8751A Specifications

PARAMETER	VALUE
Key Features	- Frequency: 5 Hz to 500 MHz
Technical Specifications	Model: 8751A with Option 001
RF / Performance	5 Hz–500 MHz; Opt 001 high-stability reference

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	8751A with Option 001
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Network Analyzer System
Family	HP 8751A
Alias	HP 8751A Opt 001; 8751A-001

RF / Performance

5 Hz-500 MHz; Opt 001 high-stability reference

Operational Notes

Prefer HP 8751A catalog page. Confirm installed test set (87511/87512) and Opt 001/002 on unit. System performance depends on attached test set.

Ordering Information

OPTION	DESCRIPTION
Option 001	Overview

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

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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.