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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8501A

HP Agilent 8501A Storage Normalizer for 8505A Network Analyzer The HP 8501A is a dedicated accessory for the 8505A RF network analyzer (500 kHz to 1.3 GHz). OEM 8501A product data list digital storage, CRT annotation of major controls, normalization to remove frequency-response errors, digital averaging to improve S/N, display magnification, two display channels, and factory HP-IB. Flicker-free documented 8505A displays and normalized transmission/reflection traces. Instrument Type: Network analyzer storage normalizer The HP 8501A is a dedicated accessory for the 8505A RF network analyzer (500 kHz to 1.3 GHz). OEM 8501A product data list digital storage, CRT annotation of major controls, normalization to remove frequency-response errors, digital averaging to improve S/N, display magnification, two display channels, and factory HP-IB. Flicker-free documented 8505A displays and normalized transmission/reflection traces. Instrument Type: Network analyzer storage normalizer Host Analyzer: HP 8505A RF network analyzer



MODEL

**Agilent / Keysight
8501A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8501A

LISTING

<https://aumictechlabs.com/products/8501a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 8501A is a normalization adapter that extends the measurement capabilities of the Agilent/Keysight 8505A Network Analyzer. It digitally stores screen displays and comparison images to enable error compensation and enhanced measurement precision in RF and microwave characterization. The adapter supports direct output of measurement results to

XY recorders or external computers via IEEE-488 interface. Technical Specifications Display: Alphanumeric screen with 22-line maximum display, 54 characters per line. Data Storage: Digital storage of network analyzer screen displays and comparison images for measurement analysis and trending. Interfaces: IEEE-488 standard interface for instrument control and digital data transfer. Output Capability: Measurement result export to XY recorders and computer systems. Key Features Normalization function compensates for systematic errors in network analyzer measurements Real-time digital comparison of stored reference and active measurement data IEEE-488 connectivity for automated test system integration Alphanumeric display for direct parameter readout and configuration verification Typical Applications The 8501A addresses calibration and optimization workflows in RF and microwave test environments. Laboratories performing device characterization, component verification, and system-level network analysis benefit from its error compensation capability and data storage functionality. Applications span passive component measurements, active device characterization, and transmission line analysis where measurement normalization improves accuracy. Compatibility & Integration Designed as a dedicated peripheral for the Agilent/Keysight 8505A Network Analyzer, the 8501A integrates directly into established 8505A installations. The IEEE-488 interface enables connection to external computing resources and data logging systems, supporting both standalone operation and automated measurement sequences within larger test frameworks.

8501A Characteristics / Specifications

PARAMETER	VALUE
Model	8501A
Instrument Type	Network analyzer storage normalizer
Host Analyzer	HP 8505A RF network analyzer
Host Frequency Range	500 kHz to 1.3 GHz
Display Channels	2
Digital Storage	yes flicker-free display
Normalization	removes frequency response errors
Averaging	digital averaging improves signal-to-noise
Magnify	display magnification for high accuracy
Crt Annotation	major control settings labeled on CRT
Remote Interface	HP-IB factory equipped
Related Test Set	8503A S-parameter test set (sold separately)
Manufacturer	HP Agilent Keysight
Mechanical Package	8505A accessory instrument
Documentation	HP 8501A storage normalizer product data
Application Class	RF network analysis documentation and normalization
Minimum Host Frequency	500 kHz
Maximum Host Frequency	1.3 GHz
Programming	HP-IB remote
Use With	8505A plus 8503A as required
Trace Memory	digital storage of analyzer traces
Error Removal	normalization of systematic frequency response

8501A Specifications

PARAMETER	VALUE
Applications	Flicker-free documented 8505A displays and normalized transmission/reflection traces.
Key Features	Digital storage for 8505A
Technical Specifications	Model: 8501A

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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Use With	8505A plus 8503A as required
Trace Memory	digital storage of analyzer traces
Error Removal	normalization of systematic frequency response
Notes	
From HP 8501A Storage Normalizer product data asadedicated 8505A accessory (500 kHz-1.3 GHz host, HP-IB, averaging, normalization). 8505A and 8503A are separate instruments.	

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.