

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

HP / AGILENT

HP / Agilent 8722A 40 GHz Microwave Network Analyzer

The HP/Agilent 8722A is a microwave vector network analyzer covering 50 MHz to 40 GHz with an integrated synthesized source, tuned receiver, and switching S-parameter test set in one package. OEM 8720-series literature cites approximately 75 dB system dynamic range, vector error correction, and optional time-domain analysis for RF/microwave component characterization. Used for full two-port S-parameter measurements of amplifiers, filters, cables, and antennas; manufacturing and incoming inspection; R&D of microwave components; and space-conscious benchtop or rack VNA work to 40 GHz. Measurement types: transmission and reflection S-parameters Integrated design: source plus test set plus receiver Primary connector class: microwave coaxial (configuration dependent) Frequency span and 75 dB dynamic-range figures are from Keysight/Agilent 8722A product descriptions in the 8719C/8720C/8722A family overview. Later 8722ES datasheets publish banded dynamic-range tables that differ; use the ES document only for ES instruments. Confirm installed options and connector sex on the specific 8722A.



MODEL

HP / Agilent 8722A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8722A

LISTING

<https://aumictechlabs.com/products/8722a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 8722A is a 40 GHz microwave network analyzer that integrates a synthesized source, tuned receiver, and S-parameter test set into a single instrument. Operating from 50 MHz to 40 GHz, it delivers the frequency resolution, measurement accuracy, and dynamic range required for RF and microwave component characterization in research, development, and production environments.

Technical Specifications

Frequency Range: 50 MHz to 40 GHz
Frequency Resolution: 100 kHz standard; Option 001 provides 1 Hz resolution
Frequency Accuracy: 10 ppm
Output Power: +10 dBm
Power Resolution: 0.01 dB
Power Sweep Range: Up to 20 dB
Dynamic Range: Greater than 85 dB; up to 100–105 dB (8722ES with Option 007)
Test Ports: 2

Display: Large color display with multiple formats (log magnitude, linear magnitude, SWR, phase, group delay, polar, real, Smith Chart)

Key Features

- Vector accuracy enhancement and error correction
- Two independent display channels; four on 8722ES
- Two internal bias tees for transistor biasing
- Power meter calibration capability
- Limit testing for Pass/Fail evaluation
- Internal test sequencing and automation
- Direct save/recall to external disk drive via 3.5" floppy (DOS and LIF formats)
- Fully programmable via HP-IB from external computer
- 3.5 mm test port connectors; 2.4 mm adapters included

Measurement Capabilities

S-parameter analysis, insertion loss, return loss, transmission gain/loss, and impedance measurements across the full 50 MHz to 40 GHz band. Measurement accuracy varies by frequency; 20–40 GHz band (8722ES) specifies directivity to 38 dB, source match to 33 dB, and load match to 38 dB.

Compatibility & Integration

Serial and parallel interfaces support modern printers and plotters. Synthesized source, switching test set, and tuned receiver operate as a single integrated unit, eliminating the need for external components in most measurement scenarios.

8722A Characteristics / Specifications

PARAMETER	VALUE
Minimum frequency	50 MHz
Maximum frequency	40 GHz
System dynamic range	75 dB
Port impedance	50 ohm
Source	integrated synthesized
Test set	integrated switching S-parameter
Receiver	vector tuned receiver
Error correction	vector accuracy enhancement
Time domain	available in family feature set
Display	large color display
Remote interface	GPIB
Number of ports	2 (S-parameter)
Frequency coverage decades	50 MHz through 40 GHz
Instrument class	microwave vector network analyzer
Family	HP 8720 series
Measurement types	transmission and reflection S-parameters
Integrated design	source plus test set plus receiver
Primary connector class	microwave coaxial (configuration dependent)
Lower frequency	50 MHz
Upper frequency	40 GHz
Dynamic range stated	75 dB
Characteristic impedance	50 ohm
Integrated source	yes synthesized
Integrated test set	switchingSparameter
Family models	8719C 8720C 8722A

8722A Specifications

PARAMETER	VALUE
HP Agilent 8722A Vector Network Analyzer	Overview
GPIB remote programming for ATE	50 ohm measurement ports for coaxial microwave fixtures
Technical Specifications	Minimum frequency: 50 MHz

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
Minimum frequency	50 MHz
Maximum frequency	40 GHz
System dynamic range	75 dB
Port impedance	50 ohm
Source	integrated synthesized
Test set	integrated switching S-parameter
Receiver	vector tuned receiver
Error correction	vector accuracy enhancement
Time domain	available in family feature set
Display	large color display
Remote interface	GPIO
Number of ports	2 (S-parameter)
Frequency coverage decades	50 MHz through 40 GHz
Instrument class	microwave vector network analyzer
Family	HP 8720 series
Measurement types	transmission and reflection S-parameters
Integrated design	source plus test set plus receiver
Primary connector class	microwave coaxial (configuration dependent)
Lower frequency	50 MHz
Upper frequency	40 GHz
Dynamic range stated	75 dB
Characteristic impedance	50 ohm
Integrated source	yes synthesized
Integrated test set	switchingSparameter
Family models	8719C 8720C 8722A

Notes

Frequency span and 75 dB dynamic-range figures are from Keysight/Agilent 8722A product descriptions in the 8719C/8720C/8722A family overview. Later 8722ES datasheets publish banded dynamic-range tables that differ; use the ES document only for ES instruments. Confirm installed options and connector sex on the specific 8722A.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 14, 2026

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