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Data Sheet

August 13, 2026

HP / AGILENT

HP / Agilent 8722C 40 GHz Microwave Network Analyzer

HP Agilent 8722C 40 GHz Microwave Vector Network Analyzer The HP 8722C is the 40 GHz member of the 8719C/8720C/8722C microwave VNA family. A fast-sweeping synthesized source, switching S-parameter test set, tuned receiver, and color display are integrated in one package. Frequency coverage is 50 MHz to 40 GHz with 2.4 mm test ports. Standard frequency resolution is 100 kHz; Option 001 provides 1 Hz. Maximum source power is -5 dBm with a -60 dBm minimum and 0.05 dB power resolution. System dynamic range is 87 dB above 2 GHz. Option 010 adds time-domain (inverse FFT) display; Option 003 raises forward (S21) dynamic range; Option 006 replaces mechanical switches with solid-state switching. The HP 8722C is the 40 GHz member of the 8719C/8720C/8722C microwave VNA family. A fast-sweeping synthesized source, switching S-parameter test set, tuned receiver, and color display are integrated in one package. Frequency coverage is 50 MHz to 40 GHz with 2.4 mm test ports. Standard frequency resolution is 100 kHz; Option 001 provides 1 Hz. Maximum source power is -5 dBm with a -60 dBm minimum and 0.05 dB power resolution. System dynamic range is 87 dB above 2 GHz. Option 010 adds time-domain (inverse FFT) display; Option 003 raises forward (S21) dynamic range; Option 006 replaces mechanical switches with solid-state switching. Two-port S-parameter characterization of microwave components to



MODEL

HP / Agilent 8722C

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8722C

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 8722C is a 40 GHz microwave network analyzer engineered for RF and microwave component characterization across research, manufacturing, and quality assurance. Operating from 50 MHz to 40 GHz with dual channels and an integrated test set, it measures all four S-parameters (S11, S21, S12, S22) via single-connection architecture. The synthesized internal source delivers ± 1.5 dB power flatness with 0.01 dB resolution and 20 dB sweep range. A tuned receiver with variable-bandwidth IF filters provides dynamic range to 103 dB (optionally 105 dB). Fast-sweep capability enables measurement update rates near 1 ms per point. The instrument displays magnitude, phase, and group delay of transmission and reflection coefficients; supports impedance and insertion loss analysis; and includes optional time-domain response computation. Solid-state switching (Option 006) enables simultaneous forward/reverse measurement and continuous four-parameter updates for two-port error correction. High-power testing (Option H85) delivers up to 20 watts to the device under test. Mixer measurement (Option H89) and frequency-offset modes (Option 089) extend capability to frequency translators. A large color display supports independent dual-channel viewing, pass/fail testing, advanced markers, and configuration save/recall. Direct printer/plotter output streamlines documentation. HP-IB (IEEE 488) control is standard.

8722C Characteristics / Specifications

PARAMETER	VALUE
Model	8722C
Manufacturer	Hewlett Packard / Agilent (Keysight)
Instrument Type	Microwave vector network analyzer
Family	8719C / 8720C / 8722C
Alias	HP 8722C; Agilent 8722C; Keysight 8722C
Frequency Range	50 MHz to 40 GHz
Frequency Resolution Standard	100 kHz
Frequency Resolution Option 0	1 Hz
Frequency Accuracy	10 ppm
Maximum Source Power	-5 dBm
Minimum Source Power	-60 dBm
Power Resolution	0.05 dB
Power Flatness	plus/minus 3.0 dB
Power Sweep Range	15 dB
Receiver Sensitivity Above 2 GHz	-91 dBm
Receiver Sensitivity Option 0	-113 dBm
System Dynamic Range Above 2 GHz	87 dB
Test Port Connector	2.4 mm
IF Filters	variable bandwidth tuned receiver (C series summary does not list discrete Hz settings)
Measurement Points Rate Spec	201 point sweep
Measurement Rate Single Port	less than 2 ms per point typical (201 points)
Measurement Rate Full Two Port	less than 5 ms per point typical (201 points)
Sweep Update Class	about 1 ms per point (family marketing figure)
Display Channels	2 independentSParameters: all four (S11, S21, S12, S22) with one connection

PARAMETER	VALUE
Internal Bias Tees	2
Markers Per Channel	up to 5
Limit Lines Per Channel	up to 22
Width	425 mm (16.75 in)
Height	267 mm (10.5 in)
Depth	502 mm (19.75 in)
Weight Net	34 kg (75 lb)
Weight Shipping	40 kg (88 lb)
HPIB Functions	SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT0, C0, C1, C10, E2
Spec Temperature	23 C plus/minus 3 C
Related 8719C	50 MHz to 13.5 GHz; 3.5 mm; +10 dBm max; 103 dB dynamic range class
Related 8720C	50 MHz to 20 GHz; 3.5 mm; +10 dBm max; 103 dB dynamic range class
Upgrade Kit	HP 86382C (8720C to 8722C, includes installation)
Retrofit Option 0	HP 08720 60024
Bandwidth	tuned receiver (C series summary does not list discrete Hz settings)

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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Markers Per Channel	up to 5
Limit Lines Per Channel	up to 22

Option 001: 1 Hz frequency resolution
Option 003: high forward (S21) dynamic range (8722C)
Option 006: solid state switching test set
Option 010: time domain capability
Option 011: direct access receiver configuration
Option 802: add HP 9122C dual disk drive
Option 913: rack mount kit 5062 4074

Specifications

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Weight Shipping	40 kg (88 lb)
HPIB Functions	SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT0, C0, C1, C10, E2
Spec Temperature	23 C plus/minus 3 C
Related 8719C	50 MHz to 13.5 GHz; 3.5 mm; +10 dBm max; 103 dB dynamic range class
Related 8720C	50 MHz to 20 GHz; 3.5 mm; +10 dBm max; 103 dB dynamic range class
Upgrade Kit	HP 86382C (8720C to 8722C, includes installation)
Retrofit Option 001	HP 86381A
Retrofit Option 003	HP 08720 60024

Notes
Numeric rows from HP 8719C/8720C/8722C catalog technical data (Keysight 8720C datasheet reprint of C-series summary). IF bandwidth discrete settings and 1601-point lists are not copied from 8722D/ES. Confirm installed options (001/003/006/010/011) on the faceplate/firmware. Calibration kit class is 2.4 mm (85056 family).

Ordering Information

OPTION	DESCRIPTION
Option 001	provides 1 Hz. Maximum source power is -5 dBm with a -60 dBm minimum and 0.05 dB power resolution. System dynamic range is 87 dB above 2 GHz. Option 010 adds ti
Option 003	raises forward (S21) dynamic range; Option 006 replaces mechanical switches with solid-state switching.
Option 010	time domain
Option 011	deletes couplers/transfer switch for direct receiver access (antenna/RCS)

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.