

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8713B

Keysight / Agilent 8713B RF Network Analyzer 300 kHz to 3 GHz The Keysight/Agilent (HP) 8713B is an RF economy network analyzer covering 300 kHz to 3 GHz for transmission and reflection measurements. OEM 871xB family literature lists integrated source and receiver architecture for scalar/vector economy RF component test with GPIB automation. Filter and amplifier production test, antenna/cable reflection checks, and general-purpose RF network measurements to 3 GHz. Three gigahertz RF network analyzer coverage The Keysight/Agilent (HP) 8713B is an RF economy network analyzer covering 300 kHz to 3 GHz for transmission and reflection measurements. OEM 871xB family literature lists integrated source and receiver architecture for scalar/vector economy RF component test with GPIB automation. Filter and amplifier production test, antenna/cable reflection checks, and general-purpose RF network measurements to 3 GHz. Three gigahertz RF network analyzer coverage Measurement Functions: Transmission and reflection



MODEL

**Agilent / Keysight
8713B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

8713B

LISTING

<https://aumictechlabs.com/products/8713b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8713B is an RF network analyzer that characterizes and tests RF and microwave components from 300 kHz to 3 GHz. It combines a synthesized source, transmission/reflection test set, and dual-channel receivers in a single instrument, enabling swept frequency analysis with one connection. The analyzer delivers 100 dB system dynamic range and

50 ms sweep speed, making it suitable for high-volume manufacturing and laboratory environments requiring fast, accurate S-parameter and transmission/reflection measurements. Technical Specifications Frequency & Source Performance Frequency Range: 300 kHz to 3 GHz System Dynamic Range: 100 dB (narrowband detection greater than 100 dB) Synthesized Source with 1 Hz resolution Output Power: Up to +16 dBm Source Stability: ± 5 ppm (0°C to 55°C, typical) Harmonics: < -20 dBc at +7 dBm (< 1 MHz); 1 MHz) Receivers & Measurement Speed Three-channel, dual-mode receivers (narrowband and broadband detection) Real-time Sweep Speed: 50 ms/sweep Sweep Rate: Up to 134 ms/point Measurement Capabilities S-parameters (magnitude, phase, group delay) Transmission/reflection frequency response, insertion loss, delay, power, SWR Structural Return Loss (Option 100) Fault Location (Option 100) AM Delay (optional) Cable Test Capabilities (optional) System Accuracy Directivity: 40 dB Source Match (reflection): 20 dB Source Match (transmission): 14 dB typical (1.3 GHz) Load Match: 18 dB typical Reflection Tracking: 0 ± 0.4 dB typical One-port, response, and response/isolation calibration modes Display & Storage Two independent display channels Log/linear magnitude, SWR, real/imaginary, and 75Ω formats (dBv, dBmv, dBuv) Trace functions: measurement, memory data, vector division, and limit lines Internal 3.5-inch disk drive (LIF/DOS formats) Key Features Integrated synthesized source eliminates external equipment High directivity (40 dB) reduces systematic errors Supports 50Ω and 75Ω system configurations GPIB (IEEE 488.2), Centronics, and RS-232C interfaces $\pm 10\%$ input voltage tolerance (nominal supply) Typical Applications Component characterization in manufacturing test Transmission line and filter analysis Return loss and SWR measurement Fault location on transmission lines (Option 100) Compatibility & Integration Interface via GPIB, RS-232C, or Centronics. Optional IBASIC system controller (Option 1C2) available for automation.

8713B Characteristics / Specifications

PARAMETER	VALUE
Model	8713B
Instrument Type	RF network analyzer
Frequency Range	300 kHz to 3 GHz
Measurement Functions	Transmission and reflection
Architecture	Integrated source/receiver economy VNA class
Series Family	871xB RF network analyzers
Related Sibling	8712B lower-frequency economy model class
Remote Interface	GPIB
Chassis Form	Benchtop RF network analyzer
Brand Lineage	HP / Keysight / Agilent
Port Configuration Class	Economy RF test ports class
Calibration Support	Open short load thru class calibrations
Display	Built-in analyzer display class
Source Power Class	Economy 871xB leveled source class
Dynamic Range Class	Economy RF NA dynamic range class
Frequency Resolution Class	Synthesized source resolution class
Sweep Types	Linear frequency sweep class
Marker Functions	Marker and limit-test class features
Operating Temperature Spec Class	Follow 871xB sheet
Power Class	AC mains benchtop supply
Documentation Scope	OEM 8713B/871xB published tables
Installed Options	Determine final connectors and features
Operating temperature	Spec Class: Follow 871xB sheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Spec Class: Follow 871xB sheet
Operating Temperature	Spec Class: Follow 871xB sheet
Operating Temperature Spec Class	Follow 871xB sheet
Power Class	AC mains benchtop supply
Documentation Scope	OEM 8713B/871xB published tables
Installed Options	Determine final connectors and features Notes From HP/Agilent 871xB RF Network Analyzer documentation model row for 8713B. Use the specific 8713B sheet for warranted dynamic range and power accuracy.

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	8713B
Instrument Type	RF network analyzer
Frequency Range	300 kHz to 3 GHz
Measurement Functions	Transmission and reflection
Architecture	Integrated source/receiver economy VNA class
Series Family	871xB RF network analyzers
Related Sibling	8712B lower-frequency economy model class
Remote Interface	GPIB
Chassis Form	Benchtop RF network analyzer
Brand Lineage	HP / Keysight / Agilent
Port Configuration Class	Economy RF test ports class
Calibration Support	Open short load thru class calibrations
Display	Built-in analyzer display class
Source Power Class	Economy 871xB leveled source class
Dynamic Range Class	Economy RF NA dynamic range class
Frequency Resolution Class	Synthesized source resolution class
Sweep Types	Linear frequency sweep class
Marker Functions	Marker and limit-test class features
Operating Temperature Spec Class	Follow 871xB sheet
Power Class	AC mains benchtop supply
Documentation Scope	OEM 8713B/871xB published tables
Installed Options	Determine final connectors and features
Notes	
From HP/Agilent 871xB RF Network Analyzer documentation model row for 8713B. Use the specific 8713B sheet for warranted dynamic range and power accuracy.	

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 15, 2026

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