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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9952B

Agilent / Keysight N9952B FieldFox Handheld Microwave Analyzer The Keysight (Agilent) N9952B isaFieldFox B-Series handheld combination analyzer. OEM FieldFox B-Series data sheets list frequency coverage 300 kHz to 50 GHz with frequency reference accuracy plus or minus 0.9 ppm (spec) plus aging from minus 10 to 55 C. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. FieldFox B-Series combination analyzer platform The Keysight (Agilent) N9952B isaFieldFox B-Series handheld combination analyzer. OEM FieldFox B-Series data sheets list frequency coverage 300 kHz to 50 GHz with frequency reference accuracy plus or minus 0.9 ppm (spec) plus aging from minus 10 to 55 C. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. FieldFox B-Series combination analyzer platform GPS-disciplined frequency reference option path



MODEL

**Agilent / Keysight
N9952B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9952B

LISTING

<https://aumictechlabs.com/products/n9952b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9952B FieldFox is a handheld microwave analyzer combining cable and antenna analysis (CAT), vector network analysis (VNA), and spectrum analysis (SA) in a single ruggedized, battery-powered instrument. Engineered for field deployment, it delivers comprehensive RF and microwave measurements across 300 kHz to 50 GHz with dynamic range up to 115 dB and real-

time bandwidth to 120 MHz gap-free. The N9952B withstands MIL-PRF-28800F Class 2 and MIL-STD-810G conditions with a water-resistant chassis, operates from -10 to +55 °C, and runs up to 4.5 hours on a field-swappable Li-Ion battery.

Technical Specifications

Frequency Range (CAT/VNA): 300 kHz to 50 GHz Frequency Range (Spectrum Analysis): 9 kHz to 50 GHz (optional)

Real-Time Bandwidth: Up to 120 MHz gap-free Dynamic Range (VNA): 105 dB to 115 dB Spectrum Analyzer Accuracy: ± 0.2 dB or ± 0.3 dB without warm-up Source Output Power (CAT/VNA): Default -15 dBm, flattened; 4–5 dBm max for 18–26.5 GHz sweep

Display: 6.5-inch transflective color LCD-LED, sunlight-readable Operating Temperature: -10 to +55 °C Battery Runtime: Up to 4–4.5 hours Weight: Approximately 3.3–3.4 kg Ports: 2 built-in

Key Features

Ruggedized, shock, dust, and splash-proof construction Large glove-operable buttons for field use Standard CAT capability; optional VNA, SA, power meter, vector voltmeter, real-time spectrum analyzer, IQ analyzer, noise figure, pulse, EMF/EMI, and OTA measurements TDR cable measurements, mixed-mode S-parameters, and time-domain VNA analysis Interference analyzer, spectrogram, and field strength measurement options PathWave Vector Signal Analysis (89600 VSA) software support SCPI code compatibility and CW signal source capability

Typical Applications

Cable, antenna, filter, and amplifier characterization Field troubleshooting of RF devices and systems LTE/5G NR over-the-air measurements Spectrum monitoring and interference analysis

Compatibility & Integration

Supports PathWave Vector Signal Analysis software and SCPI command control for integration into automated test environments.

N9952B Characteristics / Specifications

PARAMETER	VALUE
Model	N9952B
Frequency Range	300 kHz to 50 GHz
Frequency Reference Accuracy Spec	plus or minus 0.9 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.5 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.01 ppm
Frequency Accuracy GPS Antenna Disconnected	plus or minus 0.4 ppm nominal
Aging Rate	plus or minus 1 ppm/yr for 20 years (spec) will not exceed plus or minus 3.5 ppm
Frequency Resolution 30 kHz To 1.91211 GHz	0.67 Hz
Frequency Resolution 1.91211 To 3.82461 GHz	1.34 Hz
Frequency Resolution 3.82461 To 7.64961 GHz	2.68 Hz
Frequency Resolution 7.64961 To 15.29961 GHz	5.36 Hz
Frequency Resolution 15.29961 To 26.5 GHz	10.73 Hz
Frequency Resolution 26.5 To 45.8 GHz Class	16.09 Hz (N995xB)
Frequency Resolution 45.8 To 54 GHz Class	32.19 Hz (N995xB)
Data Points Class	101 to 10001 points including 4001 and 10001
IF Bandwidth Class VNA	3 Hz to 100 kHz stepped set
System Impedance	50 ohm nominal
Platform	FieldFox B-Series handheld analyzer
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class

PARAMETER	VALUE
Connectivity Class	USB and LAN
Brand Lineage	Agilent / Keysight
Instrument Type	FieldFox combination analyzer CAT VNA SA
Bandwidth	Class VNA: 3 Hz to 100 kHz stepped set
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9952B Specifications

PARAMETER	VALUE
Key Features	Frequency coverage 300 kHz to 50 GHz
Technical Specifications	Model: N9952B
Notes	From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9952B.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 10 C to 55 C FieldFox class
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Operating Temperature Class	minus 10 C to 55 C FieldFox class
Connectivity Class	USB and LAN
Brand Lineage	Agilent / Keysight
Instrument Type	FieldFox combination analyzer CAT VNA SA Notes From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9952B.

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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Connectivity Class	USB and LAN
Brand Lineage	Agilent / Keysight

PARAMETER	VALUE
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Instrument Type	FieldFox combination analyzer CAT VNA SA
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Notes

From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9952B.

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
NAICS 423690 · 811210 · 541380
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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.