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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9950A

Agilent / Keysight N9950A FieldFox Handheld Analyzer The Keysight (Agilent) N9950A isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 300 kHz to 32 GHz with frequency reference accuracy plus or minus 0.7 ppm (spec) plus aging from minus 10 to 55 C, and optional CAT/VNA/SA measurement modes by model family. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. GPS-disciplined frequency reference option path The Keysight (Agilent) N9950A isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 300 kHz to 32 GHz with frequency reference accuracy plus or minus 0.7 ppm (spec) plus aging from minus 10 to 55 C, and optional CAT/VNA/SA measurement modes by model family. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. GPS-disciplined frequency reference option path Frequency Reference Accuracy Spec: plus or minus 0.7 ppm + aging (minus 10 to 55 C)



MODEL

**Agilent / Keysight
N9950A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9950A

LISTING

<https://aumictechlabs.com/products/n9950a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9950A FieldFox is a battery-powered handheld combination analyzer that integrates cable and antenna analysis as a standard feature, with optional vector network

analysis, spectrum analysis, power meter, and vector voltmeter capabilities. Operating from 300 kHz to 32 GHz, it delivers comprehensive RF and microwave characterization in a portable 3.2 kg form factor designed for field maintenance and troubleshooting.

Technical Specifications

Frequency Range: 300 kHz to 32 GHz (CAT/VNA); 9 kHz to 32 GHz (SA with optional module) Two Built-In RF Ports with 4 dBm output power VNA System Dynamic Range: 110 dB Spectrum Analyzer Measurement Accuracy: ± 0.5 dB (without warm-up) Trace Noise: 0.004 dB (rms) Maximum IQ Streaming Bandwidth: 1 MHz Weight: 3.2 kg (7.1 lb)

Key Features Cable and Antenna Analysis (CAT) standard; DTF/TDR capable with dual-domain measurements in single sweep All four S-parameters measurement Field-upgradeable via software license keys USB sensor compatibility for average and pulse power measurement Rechargeable Li-ion battery with AC/DC adapter supplied Soft carrying case with backpack and shoulder strap included Compatible with Keysight 85521A Calibration Kit (DC to 26.5 GHz, 3.5 mm connector)

Optional Capabilities Vector Network Analyzer (VNA) Real-Time Spectrum Analysis (RTSA) Built-In Power Meter Vector Voltmeter PathWave Vector Signal Analysis (89600 VSA) Software integration

Typical Applications RF/microwave system field verification and maintenance Cable loss and return loss characterization Antenna performance evaluation Signal integrity and distortion analysis Power measurement and monitoring

N9950A Characteristics / Specifications

PARAMETER	VALUE
Model	N9950A
Frequency Range	300 kHz to 32 GHz
Frequency Reference Accuracy Spec	plus or minus 0.7 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.4 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.010 ppm
Frequency Resolution At Or Below 5 GHz	1 Hz
Frequency Resolution At Or Below 10 GHz	1.34 Hz
Frequency Resolution At Or Below 20 GHz	2.68 Hz
Frequency Resolution At Or Below 40 GHz Class	5.36 Hz class
Aging Rate Class	plus or minus 1 ppm/yr class for first year
Platform	FieldFox handheld analyzer
CAT Mode	cable and antenna analysis when enabled
VNA Mode	S-parameter magnitude/phase when enabled
Spectrum Analyzer Mode	when enabled on SA/combo models
Dynamic Range VNA Class At 9 GHz	100 dB class on N991xA family tables
Dynamic Range VNA Class At 18 GHz	94 dB class
Dynamic Range VNA Class At 26.5 GHz	70 dB class
Connectivity Class	USB and LAN
Display	handheld daylight-viewable display
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9950A Specifications

PARAMETER	VALUE
Agilent / Keysight N9950A FieldFox Handheld Analyzer	Overview
Key Features	Frequency coverage 300 kHz to 32 GHz
Technical Specifications	Model: N9950A
Notes	From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9950A.

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
Brand Lineage	Agilent / Keysight

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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PARAMETER	VALUE
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Frequency Resolution At Or Below 5 GHz	1 Hz
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Specifications	
PARAMETER	VALUE
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Connectivity Class	USB and LAN
Display	handheld daylight-viewable display
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight
Option Path: measurement modes depend on installed licenses	

Notes

From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9950A.

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>

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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.