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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N9952A FieldFox Handheld Microwave Analyzer, 50 GHz

Keysight / Agilent N9952A FieldFox Handheld Microwave Analyzer, 50 GHz The N9952A isaFieldFox microwave combination analyzer covering to 50 GHz. Part of the N995xA microwave FieldFox family with 2.4 mm (m) RF ports. Provides CAT/VNA/SA capabilities depending on installed options. The N9952A isaFieldFox microwave combination analyzer covering to 50 GHz. Part of the N995xA microwave FieldFox family with 2.4 mm (m) RF ports. Provides CAT/VNA/SA capabilities depending on installed options.



MODEL

**Keysight / Agilent
N9952A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9952A

LISTING

<https://aumictechlabs.com/products/n9952a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9952A FieldFox is a handheld microwave analyzer that combines cable and antenna analysis, vector network analysis, and spectrum analysis into a single portable instrument rated to 50 GHz. Purpose-built for field deployment, it delivers lab-grade measurement accuracy in environments where bench equipment is impractical. The unit weighs 3.2 kg, meets MIL-PRF-28800F Class 2 durability standards, and carries IP53 ingress protection. Core performance centers on two NMD 2.4 mm test ports supporting frequencies from 300 kHz to 50 GHz (Cable and Antenna Analyzer and Vector Network Analyzer) or 5 kHz to 50 GHz / 9 kHz to 50 GHz

(Spectrum Analyzer). Output power reaches 0 dBm or 4 dBm. Trace noise measures 0.004 dB rms with system dynamic range of 70–100 dB or 110 dB. Spectrum Analyzer amplitude accuracy is ± 0.5 dB without warm-up; overall amplitude accuracy is ± 0.3 dB. Third-order intercept (TOI) at 1 GHz: +13 dBm. Display Average Noise Level (DANL) at 1 GHz: –159 dBm. Phase noise at 1 GHz reaches –113 dBc/Hz (1 MHz offset), –111 dBc/Hz (10 kHz offset), and –108 dBc/Hz (30 kHz offset). Measurement speed achieves 478 μ s/pt at 1001 points per sweep. Maximum analysis and real-time bandwidths are both 10 MHz. Standard attenuator spans 30 dB in 5 dB steps.

Technical Specifications
Frequency range: 300 kHz to 50 GHz (CAT/VNA); 5 kHz to 50 GHz or 9 kHz to 50 GHz (SA)
Test ports: 2 $\times$ NMD 2.4 mm (m)
Output power: 0 dBm or 4 dBm
Trace noise: 0.004 dB rms
Dynamic range: 70–100 dB or 110 dB
Amplitude accuracy (SA): ± 0.5 dB; overall: ± 0.3 dB
TOI @ 1 GHz: +13 dBm
DANL @ 1 GHz: –159 dBm
Phase noise @ 1 GHz: –113 dBc/Hz (1 MHz), –111 dBc/Hz (10 kHz), –108 dBc/Hz (30 kHz)
Sweep speed: 478 μ s/pt (1001 points)
Analysis bandwidth: 10 MHz maximum
Attenuator: 30 dB range, 5 dB steps
Weight: 3.2 kg
Environmental: MIL-PRF-28800F Class 2, IP53

Key Features
Software-configurable: Standard Cable and Antenna Analyzer with optional Vector Network Analyzer, Spectrum Analyzer, Power Meter, Independent Signal Generator, Tracking Generator, TDR, and Extended Range Transmission Analysis
Full 2-port S-parameter capability (with VNA option)
Real-Time Spectrum Analysis, Interference Analyzer, Spectrogram, and Time Gating (with SA option)
Noise Figure and Over-The-Air measurements available
Pulse and Built-in Power Meter functionality

Typical Applications
Cable and antenna characterization
Microwave component testing
Field network analysis and troubleshooting
Spectrum monitoring and interference detection
Time-domain cable fault location

Compatibility & Integration
Test port connectors conform to NMD 2.4 mm standards. USB interface supports external power sensor integration.

Features & description

From manufacturer datasheet

Features

- Frequency (microwave VNA/CAT class): 300 kHz to 50 GHz • Frequency (SA class): 9 kHz to 50 GHz (family tables) • RF connector: 2.4 mm (m) • Analyzer type: FieldFox microwave combination analyzer
- Frequency reference: ± 0.7 ppm class + aging (-10 to 55 °C family); GPS lock ± 0.010 ppm • Supports USB ECal including 2.4 mm kits (e.g. N4693A/D class) and 85056D mechanical kits • Related models: N9950A 32 GHz; N9951A 44 GHz; N9952A 50 GHz • Modes: CAT, VNA, SA with option licenses

Applications

- Microwave cable/antenna and component test to 50 GHz • Field microwave VNA / spectrum analysis
- Millimeter-wave installation and maintenance

N9952A Characteristics / Specifications

PARAMETER	VALUE
Model	N9952A
Manufacturer	Keysight / Agilent
Instrument Type	FieldFox Handheld Microwave Combination Analyzer
Alias	N9952A; Keysight N9952A; FieldFox N9952A
Frequency VNA/CAT	300 kHz to 50 GHz
Frequency SA	9 kHz to 50 GHz
RF connector	2.4 mm (m)
Form	handheld FieldFox microwave
Max frequency	50 GHz Notes Specs from Keysight FieldFox handheld analyzer data sheets / configuration guides (N9952A row). Confirm option licenses and connector condition on the unit. Successor B-series N9952B exists with updated specs.
Frequency (microwave VNA/CAT class)	300 kHz to 50 GHz
Frequency (SA class)	9 kHz to 50 GHz (family tables)
Analyzer type	FieldFox microwave combination analyzer
Frequency reference	±0.7 ppm class + aging (–10 to 55 °C family); GPS lock ±0.010 ppm
Related models	N9950A 32 GHz; N9951A 44 GHz; N9952A 50 GHz
Modes	CAT, VNA, SA with option licenses

N9952A Specifications

PARAMETER	VALUE
Applications	- Microwave cable/antenna and component test to 50 GHz
Key Features	- Frequency (microwave VNA/CAT class): 300 kHz to 50 GHz
Technical Specifications	Model: N9952A

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	N9952A
Manufacturer	Keysight / Agilent
Instrument Type	FieldFox Handheld Microwave Combination Analyzer
Alias	N9952A; Keysight N9952A; FieldFox N9952A

Specifications

PARAMETER	VALUE
Frequency VNA/CAT	300 kHz to 50 GHz
Frequency SA	9 kHz to 50 GHz
RF connector	2.4 mm (m)
Form	handheld FieldFox microwave
Max frequency	50 GHz

Notes
Specs from Keysight FieldFox handheld analyzer data sheets / configuration guides (N9952A row). Confirm option licenses and connector condition on the unit. Successor B-series N9952B exists with updated specs.

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