

# Agilent N9923A FieldFox Vector Network Analyzer (VNA)

*World's most accurate handheld vector network analyzer*

Agilent's FieldFox VNA is the only handheld network analyzer with QuickCal, a built-in calibration system that eliminates the hassle of carrying a calibration kit into the field. QuickCal solves the problem of making reliable measurements in the field by allowing users to correct drift errors caused by temperature and connection changes without the need for a calibration kit. The FieldFox VNA also provides the best measurement stability over temperature and time and is the only handheld network analyzer with full MIL Class 2 compliance with no exceptions.



## Key Measurements

- Full 2-port error corrected network analysis, S11, S21, S12, S22, with both magnitude and phase
- Cable and antenna test (distance to fault, return loss, etc.)
- Cable loss measurement (1-port)
- Insertion loss and transmission measurement
- Smith chart and polar display
- Vector voltmeter
- Power meter with external USB power sensor

## Key Differentiators

- Built-in QuickCal technology enables calibration without a calibration kit
- Best measurement stability over temperature and time
- Industry's only handheld network analyzer with full MIL Class 2 compliance with no exceptions
- Superior system dynamic range: 100 dB
- Easy-to-use, task-driven user interface
- Weather resistant, compact, field-friendly design, and no fans or vents

## Quick Fact Sheet

### Agilent N9923A FieldFox Vector Network Analyzer (VNA)

#### Key Specifications

Function	Description
Frequency	2 MHz to 4 GHz / 6 GHz
Directivity	> 42 dB
System dynamic range	100 dB typical
Trace noise	0.01 dBm rms
Source power	+5 to -40 dBm
Internal storage	Minimum 16 MB, up to 1000 traces
External storage	1 x microSD card and 2 x USB 2.0
Connectivity	2 x USB 2.0, 1 x mini-USB, 1x LAN
Display	Bright 6.5" color anti-glare LCD
Environment	Meets MIL-PRF-28800F Class 2 specification
Temperature	Operating -10 C to +55 C, non-operating: -51 C to 71C
Battery	Lithium Ion, 3.5 hours operating time, field replaceable
Dimension	11.5" x 7.4" x 2.8" (292 x 188 x 72 mm)
Weight	Lightweight 6.2 lbs / 2.8 kg including battery

#### Options

The FieldFox base unit consists of a 4 GHz network analyzer. The following accessories are included: AC/DC adapter, 1 battery, soft carrying case, LAN cable, quick reference guide and user guide.

Model no.	Description	MSRP
Option 104	4 GHz network analyzer (Transmission /Reflection)	\$12,000
Option 106	6 GHz network analyzer (Transmission /Reflection)	\$2,500
Option 112	QuickCal	\$2,500
Option 122	Full 2-port S-parameters	\$3,000
Option 302	External USB power sensor support	\$500
Option 305	Cable and antenna analyzer	\$500
Option 308	Vector voltmeter	\$1,600

#### Accessories (More under N9910X)

Model no.	Description	MSRP
N9910X-800	T-Calibration kit, DC-6 GHz, Type N (m)	\$892
N9910X-801	T-Calibration kit, DC-6 GHz, Type N (f)	\$892
N9910X-802	T-Calibration kit, DC-6 GHz, Type 7/16 DIN (m)	\$892
N9910X-803	T-Calibration kit, DC-6 GHz, Type 7/16 DIN (f)	\$892
N9910X-814	Rugged phase stable cable, N (m) to 7/16 (m), 1.5 m	\$600
N9910X-815	Rugged phase stable cable, N (m) to 7/16 (m), 3.6 m	\$800
N9910X-816	Phase stable cable, 1 meter, N (m) to N (f)	\$375
N9910X-817	Phase stable cable, 1 meter, N (m) to N (m)	\$375
N9910X-870	Extra battery	\$100
N9910X-872	External battery charger	\$276
N9910X-873	AC/DC adapter	\$151
N9910X-874	External bias tee, 2.5 MHz to 6 GHz, 1 W, 0.5 A	\$201
N9910X-875	DC car charger and adapter	\$260
N9910X-881	Hard transit case	\$401

#### Recommended service options

Additional two years of Return-to-Agilent warranty  
Additional two years of Return-to-Agilent calibrations  
For more information go to [www.agilent.com/find/removealldoubt](http://www.agilent.com/find/removealldoubt)

Product specifications and descriptions in this document subject to change without notice.

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