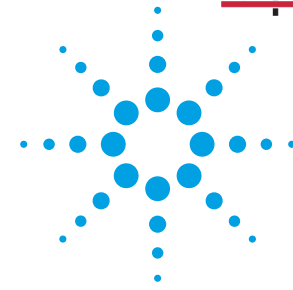


Agilent N9912A FieldFox RF Analyzer

The world's most integrated RF analyzer



Key measurements:

- Cable and antenna test (distance to fault, return loss etc.)
- Cable loss measurement
- Insertion loss and transmission measurement
- Spectrum analyzer
- Interference analyzer, spectrogram, waterfall display, record and playback
- Channel power, adjacent channel power, and occupied bandwidth
- LTE, CDMA, GSM, TD-SCDMA, cdma2000, power suite measurements
- AM/FM tune and listen
- Power meter with USB power sensor
- Vector network analyzer with Smith chart display
- Vector voltmeter, Agilent/HP 8508A cable trimming application



Features:

1. Connector covers help keep dust out
2. Anti-glare 6.5 inch LCD display with LED backlight
3. Convenient side strap makes it easy to hold and carry
4. Task-driven keys are grouped to easily and naturally perform standard field measurements
5. Portrait design and large buttons for easy operation – even with gloves on
6. Dedicated marker keys for quick marker function access
7. Backlit keypad
8. Easily accessible battery compartment
9. LAN port for fast data transfer
10. SD flash card slot for additional data storage
11. USB ports for convenient data transfer

Lightweight:
6.2 lbs (2.8 kg)
including battery

Quick Fact Sheet

FieldFox key specifications

Function	Description
Cable and antenna analyzer	
Frequency	2 MHz to 6 GHz
Speed	Less than 1.5 ms per point, up to 1001 points
Directivity	> 42 dB
Dynamic range	72 dB
Spectrum analyzer	
Frequency	100 kHz to 6 GHz
Speed	750 ms (span: 20 MHz) RBW: 3 kHz, VBW: 3 kHz, 1 second full span (6 GHz)
DANL	-148 dBm
Phase noise	-88 dBc @ 10 kHz
TOI	-96 dBc, +18 dBm
Internal storage	Minimum 16 MB, up to 1000 traces
External storage	1 x mini SD slot and 2 x USB 2.0
Connectivity	2 x USB 2.0; 1 x mini USB; 1 x LAN
Display	Bright 6.5" color anti-glare LCD
Environmental	Meets MIL-PRF-28800F Class 2 specification
Temperature	Operating: -10 °C to +55 °C, Non-operating: -51 °C to +71 °C
Internal battery	Lithium Ion, 4 hours operating time. Replace easily in the field without tools.
Dimensions	11.5" X 7.4" X 2.8" (292 X 188 X 72 mm)
Weight	Lightweight 6.2 lbs/2.8 kg including battery

The FieldFox base unit consists of a 4 GHz cable and antenna analyzer. The following accessories are included as standard:

- AC/DC adapter
- Quick Reference Guide
- Soft carrying case
- User manual
- Battery
- CD ROM with FieldFox DataLink Software

FieldFox options

Model No.	Description
Option 104	4 GHz cable and antenna analyzer. This option is standard in the base price.
Option 106	6 GHz cable and antenna analyzer
Option 110	Transmission measurement (for insertion loss or gain measurement)
Option 111	QuickCal
Option 230	4 GHz spectrum analyzer (requires Option 104)
Option 231	6 GHz spectrum analyzer (requires Option 106)
Option 235	Pre-amplifier for spectrum analyzer (requires Option 230 or 231)
Option 236	Interference analyzer
Option 302	External USB power sensor support
Option 303	Network analyzer capability
Option 308	Vector voltmeter

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

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FieldFox Accessories (N9910X)

Model No.	Description
N9910X-800	T-Calibration Kit, DC-6 GHz, Type-N(m)
N9910X-801	T-Calibration Kit, DC-6 GHz, Type-N(f)
N9910X-802	T-Calibration Kit, DC-6 GHz, 7/16 DIN(m)
N9910X-803	T-Calibration Kit, DC-6 GHz, 7/16 DIN(f)
N9910X-810	Rugged phase stable cable, Type-N (m) to Type-N(m), 5 ft
N9910X-811	Rugged phase stable cable, Type-N (m) to Type-N(f), 5 ft
N9910X-812	Rugged phase stable cable, Type-N (m) to Type-N(m), 12 ft
N9910X-813	Rugged phase stable cable, Type-N (m) to Type-(f), 12 ft
N9910X-820	Antenna, directional, multiband, 800-2500 MHz, 10 dBi
N9910X-821	Antenna, telescopic whip, 70 MHz - 1 GHz
N9910X-843	Coaxial adapter, Type-N(m) to 7/16 DIN(f)
N9910X-845	Adapter kit – Type-N(f) to 7/16(f), Type-N(f) to 7/16(m), Type-N(f) to Type-N(f)
N9910X-860	Fixed attenuator, 40 dB, 100 W, DC-3 GHz, Type-N(m) to Type-N(f)
N9910X-861	Fixed attenuator, 40 dB, 50 W, DC-8.5 GHz, Type-N(m) to Type-N(f)
N9910X-870	Extra battery
N9910X-872	External battery charger
N9910X-873	AC/DC adapter
N9910X-874	External bias-tee, 2.5 MHz to 6 GHz, 1 W, 0.5 A
N9910X-881	Hard transit case

Key differentiators:

- Integrated QuickCal calibrates without a calibration kit
- Immediate calibration with CalReady
- 50 percent faster than traditional handheld instruments
- Superior dynamic range (96 dB) and sensitivity (-148 dBm) in the spectrum analyzer mode; high dynamic range ideal for interference detection
- Easy-to-use, task driven user interface

Optimized for the following applications:

- Wireless service providers
- Aerospace and defense customers
- TV and broadcasting customers
- Contractor for the above

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

überreicht durch:

Opternus

Opternus GmbH Optische Spleiss- & Messtechnik

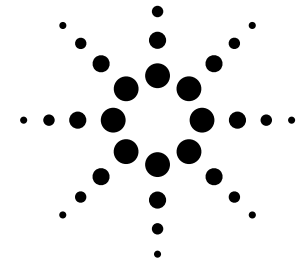
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Agilent Technologies



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
Option 104	4 GHz network analyzer (Transmission /Reflection)
Option 106	6 GHz network analyzer (Transmission /Reflection)
Option 112	QuickCal
Option 122	Full 2-port S-parameters
Option 302	External USB power sensor support
Option 305	Cable and antenna analyzer
Option 308	Vector voltmeter

Accessories (More under N9910X)

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

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

überreicht durch:

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