Product Fact Sheet

Keysight N9923A FieldFox Vector Network Analyzer (VNA)

World's most accurate handheld vector network analyzer

The Keysight Technologies 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. The FieldFox VNA also provides the best measurement stability over temperature and time and is the only handheld network analyzer with full MIL-PRF-28800F 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
- Time domain
- Standard 3 year warranty

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-PRF-28800F 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.

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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 dB 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 71 °C
Battery	Lithium Ion, 3.5 hours operating time, field replaceable
Dimension	11.5" x 7.4" x 2.8" (292 mm x 188 mm x 72 mm)
Weight	Lightweight 6.2 lbs/2.8 kg including battery
GPS	Enables operators to find exact locations and time/location stamp their reports.

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, and Quick Reference Guide.

Model	Description
Option 030	Remote control capability
Option 010	Time domain
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	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)
85514A	4-in-1 OSLT mechanical calibration kit, DC to 9 GHz, Type-N (m), 50 Ω
85515A	4-in-1 OSLT mechanical calibration kit, DC to 9 GHz, Type-N (f), 50 Ω
N9910X-814	Rugged phase-stable cable, Type-N (m) to 7/16 (m), 60 inch or 1.5 m
N9910X-815	Rugged phase-stable cable, Type-N (m) to 7/16 (m), 12 ft or 3.6 m
N9910X-816	Rugged phase-stable cable, Type-N (m) to Type-N (f), 3.28 ft or 1 m
N9910X-817	Rugged phase-stable cable, Type-N (m) to Type-N (m), 3.28 ft or 1 m
N9910X-846	Coaxial adapter, 50 Ω Type-N (m) to 75 Ω Type-N (f) (quantity two required for 75 Ω measurements)
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

www.keysight.com/find/FieldFox

Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

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