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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N9914B FieldFox Handheld RF Analyzer, 6.5 GHz

Instrument Type: FieldFox Handheld RF Combination Analyzer Alias: N9914B; Keysight N9914B; FieldFox N9914B Specs from Keysight FieldFox B-Series data sheet / configuration guide (N9914B row). Exact licensed modes (SA/VNA/CAT options) determine available measurements—confirm option list on the unit. Alias: N9914B; Keysight N9914B; FieldFox N9914B Specs from Keysight FieldFox B-Series data sheet / configuration guide (N9914B row). Exact licensed modes (SA/VNA/CAT options) determine available measurements—confirm option list on the unit.



MODEL

**Keysight / Agilent
N9914B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9914B

LISTING

<https://aumictechlabs.com/products/n9914b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N9914B FieldFox is a handheld RF analyzer that combines spectrum analysis, vector network analysis, and cable and antenna testing in a single 3.4 kg instrument. Operating to 6.5 GHz, it delivers 115 dB dynamic range for simultaneous four-port S-parameter measurement and achieves -163 dBm DANL at 1 GHz with ± 0.3 dB measurement accuracy. The dual Type-N port design supports 30 kHz to 6.5 GHz cable and antenna analysis, 9 kHz to 6.5 GHz spectrum analysis with optional real-time capability, and 100 MHz gap-free real-time bandwidth. Phase noise performance reaches -124 dBc/Hz at 1 MHz offset. Built-in GPS/GNSS geolocation, LAN

connectivity, and optional remote control enable field deployment in demanding environments. Measurement functions include optional vector network analysis, power metering, field strength, noise figure, and 5G NR/LTE over-the-air support.

Technical Specifications

Frequency Range (Cable/Antenna/VNA): 30 kHz to 6.5 GHz
Frequency Range (Spectrum Analysis): 9 kHz to 6.5 GHz
Real-Time Bandwidth: 100 MHz gap-free
Maximum Analysis Bandwidth: 120 MHz
Dynamic Range (S-parameters): 115 dB
DANL @ 1 GHz: -163 dBm
Measurement Accuracy: ± 0.3 dB
Trace Noise: 0.0008 dB rms
Phase Noise @ 1 GHz (1 MHz offset): -124 dBc/Hz
Phase Noise @ 1 GHz (10 kHz offset): -117 dBc/Hz
Phase Noise @ 1 GHz (30 kHz offset): -115 dBc/Hz
Third Order Intercept @ 1 GHz: +11 dBm
Output Power: Up to 1 dBm
System Impedance: 50 Ω nominal (75 Ω with adapter)
Attenuator Range: 40 dB (5 dB steps)
IF Bandwidth Options: 3 Hz to 100 kHz (nine steps)
Ports: 2 Type-N (f) connectors
Weight: 3.4 kg

Key Features

Dual-port simultaneous S-parameter measurement
Real-Time Spectrum Analysis (RTSA) with option GPS/GNSS support for geolocation and timestamping
LAN and optional remote control
Optional USB power sensor integration
SCPI compatibility and 89600 VSA Software support

Measurement Capabilities

Cable and Antenna Analysis (standard)
Vector Network Analysis (optional)
Spectrum Analysis (optional)
Power Meter, Vector Voltmeter, Noise Figure (optional)
Field Strength and Spectrogram (optional)
5G NR and LTE over-the-air measurements (optional)

Typical Applications

Field maintenance, installation verification, 5G and satellite communication system troubleshooting, antenna characterization, transmission line analysis, and electronic warfare assessment.

Features & description

From manufacturer datasheet

Features

• Model: N9914B FieldFox RF analyzer • Frequency (VNA/CAT class): 30 kHz to 6.5 GHz • Frequency (SA class): 9 kHz to 6.5 GHz (usable to ~5 kHz) • RF connector: Type-N (f) • Analyzer type: combination (CAT + VNA + SA with options) • Frequency reference (–10 to 55 °C): ± 0.7 ppm class + aging (B-series family tables cite $\pm 0.7/\pm 0.4$ ppm typical depending on sheet revision) • GPS lock accuracy class: ± 0.010 ppm (spec) when locked • Aging: ± 1 ppm/yr class (family) • Supports Keysight USB ECal modules (standard and value-line) • Modes: CAT, VNA, SA, and option-dependent modes (power meter, pulse, I/Q, etc.)

Applications

• Cable and antenna test in the field • Handheld VNA / spectrum analysis to 6.5 GHz • Installation and maintenance of RF infrastructure

N9914B Characteristics / Specifications

PARAMETER	VALUE
Model	N9914B FieldFox RF analyzer
Manufacturer	Keysight / Agilent
Instrument Type	FieldFox Handheld RF Combination Analyzer
Alias	N9914B; Keysight N9914B; FieldFox N9914B
Frequency VNA/CAT	30 kHz to 6.5 GHz
Frequency SA	9 kHz to 6.5 GHz
RF connector	Type-N (f)
Form	handheld FieldFox B-series
ECal	USB ECal supported Notes Specs from Keysight FieldFox B-Series data sheet / configuration guide (N9914B row). Exact licensed modes (SA/VNA/CAT options) determine available measurements—confirm option list on the unit.
Frequency (VNA/CAT class)	30 kHz to 6.5 GHz
Frequency (SA class)	9 kHz to 6.5 GHz (usable to ~5 kHz)
Analyzer type	combination (CAT + VNA + SA with options)
Frequency reference (–10 to 55 °C)	±0.7 ppm class + aging (B-series family tables cite ±0.7/±0.4 ppm typical depending on sheet revision)
GPS lock accuracy class	±0.010 ppm (spec) when locked
Aging	±1 ppm/yr class (family)
Modes	CAT, VNA, SA, and option-dependent modes (power meter, pulse, I/Q, etc.)

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	N9914B
Manufacturer	Keysight / Agilent
Instrument Type	FieldFox Handheld RF Combination Analyzer
Alias	N9914B; Keysight N9914B; FieldFox N9914B

Specifications

PARAMETER	VALUE
Frequency VNA/CAT	30 kHz to 6.5 GHz
Frequency SA	9 kHz to 6.5 GHz
RF connector	Type-N (f)
Form	handheld FieldFox B-series
ECal	USB ECal supported

Notes

Specs from Keysight FieldFox B-Series data sheet / configuration guide (N9914B row). Exact licensed modes (SA/VNA/CAT options) determine available measurements—confirm option list on the unit.

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.