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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9917B

Agilent / Keysight N9917B FieldFox Handheld Microwave Analyzer The Keysight (Agilent) N9917B isaFieldFox B-Series handheld combination analyzer. OEM FieldFox B-Series data sheets list frequency coverage 30 kHz to 18 GHz with frequency reference accuracy plus or minus 0.9 ppm (spec) plus aging from minus 10 to 55 C. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. FieldFox B-Series combination analyzer platform The Keysight (Agilent) N9917B isaFieldFox B-Series handheld combination analyzer. OEM FieldFox B-Series data sheets list frequency coverage 30 kHz to 18 GHz with frequency reference accuracy plus or minus 0.9 ppm (spec) plus aging from minus 10 to 55 C. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. FieldFox B-Series combination analyzer platform GPS-disciplined frequency reference option path



MODEL

**Agilent / Keysight
N9917B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9917B

LISTING

<https://aumictechlabs.com/products/n9917b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N9917B FieldFox is a handheld microwave analyzer combining cable and antenna measurements with optional vector network analysis, spectrum analysis, and power measurement in a single portable unit. Operating from 30 kHz to 18 GHz (spectrum analyzer from 9 kHz), it delivers field-deployable precision for network characterization, cable diagnostics, and interference detection. Technical Specifications Frequency Coverage Standard CAT/VNA: 30 kHz

to 18 GHz Spectrum Analyzer: 9 kHz to 18 GHz (5 kHz start frequency option) Dynamic Range & Sensitivity VNA system dynamic range: >114 dB Simultaneous S-parameter dynamic range: 115 dB Display Average Noise Level at 1 GHz: -163 dBm Phase noise at 1 GHz (1 MHz offset): -124 dBc/Hz Phase noise at 1 GHz (10 kHz offset): -117 dBc/Hz Phase noise at 1 GHz (30 kHz offset): -115 dBc/Hz Third Order Intercept at 1 GHz: 11 dBm RF Performance Output power: 8 dBm Trace noise: 0.001 dB Attenuator range: 40 dB standard (5 dB steps) Measurement speed: 171 μ s/point (1,001 points, single sweep) Analysis bandwidth: 10 MHz standard; 40 MHz optional Spectrum Analysis (Optional) Amplitude accuracy: ± 0.3 dB without warm-up Real-Time Spectrum Analysis: up to 100 MHz or 120 MHz bandwidth options

Key Features

Cable and Antenna Analyzer (Standard): VSWR, return loss, cable loss, and Distance to Fault (dB) measurements

Vector Network Analyzer (Optional): S11, S21 magnitude and phase; full four S-parameter measurement (S11, S12, S21, S22); mixed-mode reflection coefficients (Scc11, Sdd11, Scd11, Sdc11); Time Domain Reflectometry; time-domain gating

Spectrum Analyzer (Optional): Interference analysis, spectrogram, and time-gating capability

Power Meter (Optional): USB sensor integration for frequency-dependent power measurement

Over-the-Air Measurements: 5G NR and LTE support

Pulse Measurements (Optional): USB peak power sensor compatible

Noise Figure Measurements (Optional)

Typical Applications Field-based antenna and transmission line validation; cable loss and fault location; microwave component characterization; spectrum monitoring and interference troubleshooting; 5G device over-the-air performance assessment.

Compatibility & Integration USB power sensor and peak power sensor compatible for expanded measurement capability.

N9917B Characteristics / Specifications

PARAMETER	VALUE
Model	N9917B
Frequency Range	30 kHz to 18 GHz
Frequency Reference Accuracy Spec	plus or minus 0.9 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.5 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.01 ppm
Frequency Accuracy GPS Antenna Disconnected	plus or minus 0.4 ppm nominal
Aging Rate	plus or minus 1 ppm/yr for 20 years (spec) will not exceed plus or minus 3.5 ppm
Frequency Resolution 30 kHz To 1.91211 GHz	0.67 Hz
Frequency Resolution 1.91211 To 3.82461 GHz	1.34 Hz
Frequency Resolution 3.82461 To 7.64961 GHz	2.68 Hz
Frequency Resolution 7.64961 To 15.29961 GHz	5.36 Hz
Frequency Resolution 15.29961 To 26.5 GHz	10.73 Hz
Frequency Resolution 26.5 To 45.8 GHz Class	16.09 Hz (N995xB)
Frequency Resolution 45.8 To 54 GHz Class	32.19 Hz (N995xB)
Data Points Class	101 to 10001 points including 4001 and 10001
IF Bandwidth Class VNA	3 Hz to 100 kHz stepped set
System Impedance	50 ohm nominal
Platform	FieldFox B-Series handheld analyzer
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class

PARAMETER	VALUE
Connectivity Class	USB and LAN
Brand Lineage	Agilent / Keysight
Instrument Type	FieldFox combination analyzer CAT VNA SA
Bandwidth	Class VNA: 3 Hz to 100 kHz stepped set
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9917B Specifications

PARAMETER	VALUE
Key Features	Frequency coverage 30 kHz to 18 GHz
Technical Specifications	Model: N9917B
Notes	From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9917B.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 10 C to 55 C FieldFox class
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Connectivity Class	USB and LAN
Brand Lineage	Agilent / Keysight
Instrument Type	FieldFox combination analyzer CAT VNA SA Notes From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9917B.

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	
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Notes

From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9917B.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.