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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9916B

Agilent / Keysight N9916B FieldFox Handheld Microwave Analyzer The Keysight (Agilent) N9916B isaFieldFox B-Series handheld combination analyzer. OEM FieldFox B-Series data sheets list frequency coverage 30 kHz to 14 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) N9916B isaFieldFox B-Series handheld combination analyzer. OEM FieldFox B-Series data sheets list frequency coverage 30 kHz to 14 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 N9916B**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N9916B**	LISTING **https://aumictechlabs.com/products/n9916b-2/**

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NAICS 423690 · 811210 · 541380

This unit

The Keysight N9916B FieldFox is a handheld microwave combination analyzer delivering RF and microwave measurements up to 14 GHz in a portable 3.4 kg platform. Built for field installation, maintenance, and troubleshooting of RF components - cables, antennas, filters, amplifiers - and signal analysis, the N9916B integrates cable and antenna analysis as standard with optional vector network analysis, spectrum analysis, and real-time spectrum capture.Technical Specifications

Frequency Range: DC to 14 GHz Display: 6.5" LCD-LED Dimensions: 11.5 × 7.4 × 3.2 inches Weight: 3.4 kg (7.4 lb) Connectors: Two Type-N (female) ports Battery: Lithium-ion with over 5 hours typical runtime Output Power: Greater than +8 dBm across select bands; up to +10 dBm available Spectrum Analyzer Accuracy: ±0.3 dB without warmup VNA Dynamic Range: Greater than 115 dB for simultaneous four S-parameter measurement Phase Noise: 10 dB improvement over previous FieldFox generation DANL: 10 dB improvement over previous generation; up to 15 dB better in select bands Real-Time Bandwidth: Gap-free capture up to 120 MHz (earlier versions support 100 MHz); options include 10 MHz, 40 MHz, and 120 MHzKey Features Cable and antenna analyzer (CAT) as base capability Optional vector network analyzer (VNA) with >115 dB dynamic range Optional spectrum analyzer (SA) and real-time spectrum analyzer (RTSA) with 120 MHz gap-free bandwidth Built-in power meter and vector voltmeter options Extended range transmission analysis (ERTA) and noise figure measurements Over-the-air (OTA) measurements for 5G NR and LTE 5G TF and LTE demodulation with PathWave Vector Signal Analysis software option I/Q capture and analysis capability GPS/GNSS receiver for geolocation and timestamping QuickCal, CalReady, and InstaAlign calibration methodsTypical Applications Cable and antenna characterization and fault location S-parameter and transmission line analysis Spectrum monitoring and signal detection 5G/LTE signal demodulation and analysis Field installation and commissioning of RF systems Noise figure assessmentCompatibility & Integration Connectivity: USB, LAN, Bluetooth Software: FieldFox DataLink for data analysis and reporting; PathWave Vector Signal Analysis (89600 VSA) software available Automation: SCPI command support

N9916B Characteristics / Specifications

PARAMETER	VALUE
Model	N9916B
Frequency Range	30 kHz to 14 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

N9916B Specifications

PARAMETER	VALUE
Key Features	Frequency coverage 30 kHz to 14 GHz
Technical Specifications	Model: N9916B
Notes	From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9916B.

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 N9916B.

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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PARAMETER	VALUE
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Notes
From Keysight FieldFox B-Series Handheld Analyzers data sheet model row for N9916B.

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

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