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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9917A

Agilent / Keysight N9917A FieldFox Handheld Analyzer The Keysight (Agilent) N9917A isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 30 kHz to 18 GHz with frequency reference accuracy plus or minus 0.7 ppm (spec) plus aging from minus 10 to 55 C, and optional CAT/VNA/SA measurement modes by model family. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. GPS-disciplined frequency reference option path The Keysight (Agilent) N9917A isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 30 kHz to 18 GHz with frequency reference accuracy plus or minus 0.7 ppm (spec) plus aging from minus 10 to 55 C, and optional CAT/VNA/SA measurement modes by model family. Cable and antenna test, vector network analysis, spectrum analysis, and field microwave maintenance depending on installed options. GPS-disciplined frequency reference option path Frequency Reference Accuracy Spec: plus or minus 0.7 ppm + aging (minus 10 to 55 C)

MODEL **Agilent / Keysight N9917A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **N9917A**	LISTING **https://aumictechlabs.com/products/n9917a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9917A FieldFox is a portable microwave field analyzer integrating spectrum analysis, vector network analysis, and cable/antenna testing in a single instrument. Operating across 100 kHz to 18 GHz, it delivers laboratory-grade measurements in demanding aerospace,

defense, and telecommunications environments. The N9917A combines a -164 dBm typical noise floor, 100 dB dynamic range, and ±0.5 dB amplitude accuracy with field-deployment durability, enabling installation, maintenance, and troubleshooting of complex RF/microwave systems without bench equipment.Technical Specifications Frequency Coverage Spectrum Analyzer: 100 kHz to 18 GHz Vector Network Analyzer: 100 kHz to 18 GHz Cable and Antenna Analyzer: 100 kHz to 18 GHz Spectrum Analysis Performance Displayed Average Noise Level: -164 dBm typical Phase noise: -115 dBc/Hz at 10 kHz offset typical (1 GHz) Third-order intercept: +17 dBm typical (1 GHz) Resolution Bandwidth: 1 Hz to 10 MHz in 1/3/10 sequence Video Bandwidth: 1 Hz to 10 MHz in 1/3/10 sequence Sweep time: 10 ms to 1000 s Vector Network Analysis Ports: 2 Dynamic range: Up to 100 dB S-parameters: S11, S21, S12, S22 Measurements: Transmission magnitude/delay, reflection magnitude/delay Amplitude accuracy: ±0.5 dB typical (calibrated) Phase accuracy: ±5 degrees typical (calibrated) Cable and Antenna Measurements Parameters: Return loss, VSWR, insertion loss, distance-to-fault (DTF) Functions: Cable loss, VSWR, return loss, DTF magnitude and phase Frequency Reference Standard accuracy: ±2.5 ppm typical (aging ±1 ppm/year) Option H08: ±0.02 ppm (high-stability reference) Spectrum Analyzer Amplitude Accuracy ±1.0 dB typicalKey Features Type N male RF connectors (50 ohm) USB ports for external storage and peripherals Ethernet port for remote control and data transfer DC power input for external adapter Headphone jack for audio outputTypical Applications Aerospace and defense RF system commissioning Telecommunications network installation and verification Component and subsystem characterization Cable integrity and antenna performance diagnostics Field-based return loss and VSWR measurementsCompatibility & Integration Data transfer and remote operation supported via USB and Ethernet interfaces. External frequency reference option available for applications requiring ±0.02 ppm stability.

N9917A Characteristics / Specifications

PARAMETER	VALUE
Model	N9917A
Frequency Range	30 kHz to 18 GHz
Frequency Reference Accuracy Spec	plus or minus 0.7 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.4 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.010 ppm
Frequency Resolution At Or Below 5 GHz	1 Hz
Frequency Resolution At Or Below 10 GHz	1.34 Hz
Frequency Resolution At Or Below 20 GHz	2.68 Hz
Frequency Resolution At Or Below 40 GHz Class	5.36 Hz class
Aging Rate Class	plus or minus 1 ppm/yr class for first year
Platform	FieldFox handheld analyzer
CAT Mode	cable and antenna analysis when enabled
VNA Mode	S-parameter magnitude/phase when enabled
Spectrum Analyzer Mode	when enabled on SA/combination models
Dynamic Range VNA Class At 9 GHz	100 dB class on N991xA family tables
Dynamic Range VNA Class At 18 GHz	94 dB class
Dynamic Range VNA Class At 26.5 GHz	70 dB class
Connectivity Class	USB and LAN
Display	handheld daylight-viewable display
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9917A Specifications

PARAMETER	VALUE
Agilent / Keysight N9917A FieldFox Handheld Analyzer	Overview
Key Features	Frequency coverage 30 kHz to 18 GHz
Technical Specifications	Model: N9917A
Notes	From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9917A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 10 C to 55 C FieldFox class
Operating Temperature	Class: minus 10 C to 55 C FieldFox class
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight

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	N9917A
Frequency Range	30 kHz to 18 GHz
Frequency Reference Accuracy Spec	plus or minus 0.7 ppm + aging (minus 10 to 55 C)
Frequency Reference Accuracy Typical	plus or minus 0.4 ppm + aging
Frequency Accuracy Locked To GPS	plus or minus 0.010 ppm
Frequency Resolution At Or Below 5 GHz	1 Hz
Frequency Resolution At Or Below 10 GHz	1.34 Hz
Frequency Resolution At Or Below 20 GHz	2.68 Hz

Frequency Resolution At Or Below 40 GHz Class: 5.36 Hz class

Specifications

PARAMETER	VALUE
Aging Rate Class	plus or minus 1 ppm/yr class for first year
Platform	FieldFox handheld analyzer
CAT Mode	cable and antenna analysis when enabled
VNA Mode	S-parameter magnitude/phase when enabled
Spectrum Analyzer Mode	when enabled on SA/combination models
Dynamic Range VNA Class At 9 GHz	100 dB class on N991xA family tables
Dynamic Range VNA Class At 18 GHz	94 dB class
Dynamic Range VNA Class At 26.5 GHz	70 dB class
Connectivity Class	USB and LAN
Display	handheld daylight-viewable display
Battery Operation	yes
Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight

Option Path: measurement modes depend on installed licenses

Notes

From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9917A.

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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Generated August 14, 2026