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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9928A

Operating Temperature Class: minus 10 C to 55 C FieldFox class Option Path: measurement modes depend on installed licenses Instrument Type: FieldFox Handheld Microwave VNA From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9928A. Microwave VNA family N992xA. Option Path: measurement modes depend on installed licenses Instrument Type: FieldFox Handheld Microwave VNA From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9928A. Microwave VNA family N992xA.



MODEL

**Agilent / Keysight
N9928A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9928A

LISTING

<https://aumictechlabs.com/products/n9928a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N9928A FieldFox is a handheld microwave analyzer that combines vector network analysis, cable and antenna characterization, power measurement, and spectrum analysis into a single portable instrument. Operating from 30 kHz to 26.5 GHz, it delivers bench-level measurement accuracy in demanding field environments without sacrificing portability or ruggedness. Technical Specifications Frequency Range and Resolution Operating range: 30 kHz to 26.5 GHz Frequency resolution: 1.34 Hz (≤ 10 GHz), 5.36 Hz (≤ 20 GHz), 8.04 Hz (≤ 50 GHz) Frequency accuracy: ± 0.7 ppm (spec) + aging; typical ± 0.4 ppm + aging Vector Network Analysis Base configuration: Transmission/Reflection (S11, S21) Optional 2-port full S-parameters (S11, S21,

S12, S22) and mixed-mode S-parameters Dynamic range: Up to 100 dB to 9 GHz, 94 dB to 20 GHz, up to 95 dB with four independent receivers Directivity: >42 dB Calibration: QuickCal, full 2-port unknown thru, Thru/Reflect/Line (TRL) Time Domain Reflectometry (TDR) via inverse Fourier transform of frequency-domain data Cable and Antenna Analysis Frequency range: 30 kHz to 26.5 GHz Distance-to-fault (DTF), return loss, cable loss, and optional VSWR/reflection measurements Power Measurement Built-in power meter: 100 kHz to 26.5 GHz USB power sensor support: 9 kHz to 24 GHz (sensor-dependent) Average and pulse power measurement Output power: ± 1 dB flat across frequency range, 1 dB step adjustment Maximum leveled output power: Typically -4 dBm Additional Capabilities Vector Voltmeter (VVM): 30 kHz to 26.5 GHz for phase and electrical length comparison Interference analyzer with spectrogram, waterfall, trace playback, and recording Optional variable DC source Built-in GPS receiver Measurement Quality Trace noise: 0.004 dB rms IF bandwidth: 10 Hz, 30 Hz, 100 Hz, 300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz Key Features Two built-in measurement ports with 3.5 mm (m) connectors Rechargeable Li-ion battery with included AC/DC adapter Weight: 3.0 kg (6.6 lb) Rugged, dust-free design with no fans or vents LAN connectivity and USB for power sensor support and SCPI control Typical Applications Field testing and maintenance of microwave systems, antenna characterization, cable and transmission line diagnostics, and interference identification across cellular, wireless, and satellite frequency bands. Compatibility & Integration Supports external USB power sensors and SCPI command control. LAN connectivity enables remote operation and data logging.

N9928A Characteristics / Specifications

PARAMETER	VALUE
Model	N9928A
Frequency Range	30 kHz to 26.5 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
Frequency Resolution At Or Below 50 GHz Class	8.04 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/combo 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

PARAMETER	VALUE
Instrument Type	FieldFox Handheld Microwave VNA
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9928A Specifications

PARAMETER	VALUE
Key Features	Frequency coverage 30 kHz to 26.5 GHz
Technical Specifications	Model: N9928A
Notes	From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9928A. Microwave VNA family N992xA.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 10 C to 55 C FieldFox class
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Operating Temperature Class	minus 10 C to 55 C FieldFox class
Brand Lineage	Agilent / Keysight
Instrument Type	FieldFox Handheld Microwave VNA Notes From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9928A. Microwave VNA family N992xA.

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	N9928A
Frequency Range	30 kHz to 26.5 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	
Frequency Resolution At Or Below 50 GHz Class: 8.04 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

Instrument Type: FieldFox Handheld Microwave VNA

Notes

From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9928A. Microwave VNA family N992xA.

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 ·
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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.