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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight N9916A

Operating Temperature Class: minus 10 C to 55 C FieldFox class Option Path: measurement modes depend on installed licenses Instrument Type: FieldFox Handheld Microwave Analyzer From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9916A. Option Path: measurement modes depend on installed licenses Instrument Type: FieldFox Handheld Microwave Analyzer From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9916A.



MODEL

**Agilent / Keysight  
N9916A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**N9916A**

LISTING

<https://aumictechlabs.com/products/n9916a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Keysight N9916A FieldFox is a handheld RF analyzer delivering bench-level measurement accuracy in field environments. This dual-port, 50 ohm instrument spans 30 kHz to 14 GHz and combines cable and antenna analysis with optional vector network analysis, spectrum analysis, and power measurement capabilities. Weighing 3.0 kg and rated for -10 to +55 °C operation, it serves field service, installation, and maintenance professionals across RF and microwave applications. Technical Specifications Core Instrument Frequency Range: 30 kHz to 14 GHz (base CAT function) Built-in Ports: 2 System Impedance: 50 ohm nominal; 75 ohm with appropriate adapter and calibration kit Weight: 3.0 kg (6.6 lb) Operating Temperature: -10 to +55 °C Vector Network Analysis (VNA Option) Full four S-parameter measurement (S11, S21, S12, S22) Magnitude and phase capability 1-port mixed-mode S-parameters Time domain, DTF, and TDR

analysis in same sweep Calibration engine based on Keysight PNA architecture Spectrum Analysis (SA Option) Frequency Range: 100 kHz to 14 GHz Amplitude Accuracy:  $\pm 0.5$  dB without warm-up Channel Power Measurement Accuracy:  $\pm 0.5$  dB Real-Time Spectrum Analysis: 10 MHz bandwidth Minimum Detectable Signal (RTSA): 22 ns Field strength, AM/FM tune and listen, spectrogram, noise figure, and OTA measurements (LTE FDD, 5G) Power Measurement Microwave Power: Up to 40 GHz via USB power sensors Peak and average power measurement of modulated signals via USB peak power sensors Key Features InstAlign automatic internal amplitude alignment technology QuickCal rapid calibration capability Real-time signal detection with 22 ns pulse resolution DTF distance-to-fault measurements Integrated vector voltmeter Extended range transmission analysis (ERTA) Typical Applications Field service and maintenance of cellular infrastructure, antenna commissioning, transmission line diagnostics, cable testing, component characterization, and spectrum monitoring in RF/microwave systems. Compatibility & Integration Accepts Agilent USB power sensors for extended power measurement to 40 GHz. Supports both 50 ohm and 75 ohm measurements with appropriate calibration kits.

## N9916A Characteristics / Specifications

| PARAMETER                                     | VALUE                                            |
|-----------------------------------------------|--------------------------------------------------|
| Model                                         | N9916A                                           |
| Frequency Range                               | 30 kHz to 14 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 Analyzer     |
| Operating temperature | Class: minus 10 C to 55 C FieldFox class |

# N9916A Specifications

| PARAMETER                | VALUE                                                                                |
|--------------------------|--------------------------------------------------------------------------------------|
| Key Features             | Frequency coverage 30 kHz to 14 GHz                                                  |
| Technical Specifications | Model: N9916A                                                                        |
| Notes                    | From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9916A. |

# 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                                                                                                              |
| Instrument Type             | FieldFox Handheld Microwave Analyzer Notes From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9916A. |

# 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                                                        | N9916A                                           |
| Frequency Range                                              | 30 kHz to 14 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 Analyzer

#### Notes

From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9916A.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.