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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N9935B

Agilent / Keysight N9935B spectrum analyzer class FieldFox FieldFox Handheld Analyzer The Keysight (Agilent) N9935B spectrum analyzer class FieldFox isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 100 kHz to 9 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. The Keysight (Agilent) N9935B spectrum analyzer class FieldFox isaFieldFox handheld microwave analyzer. OEM FieldFox A-Series datasheets list frequency coverage 100 kHz to 9 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



MODEL

**Agilent / Keysight
N9935B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N9935B

LISTING

<https://aumictechlabs.com/products/n9935b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N9935B FieldFox is a handheld microwave network and spectrum analyzer engineered for field characterization of RF and microwave devices and systems. It delivers immediate spectrum analysis with ± 0.3 dB measurement accuracy - no warm-up required - and

captures intermittent signals across a 120 MHz gap-free real-time bandwidth. The instrument performs cable and antenna analysis, radar pulse profiling, over-the-air measurements for 5G NR and LTE, and RF signal monitoring via I/Q data capture. Built-in GPS/GNSS provides geolocation and timestamping. Weighing 3.4 kg, it integrates a power meter and supports optional tracking generator, pre-amplifier, and extended range transmission analysis (ERTA) capabilities.

Technical Specifications

- Frequency Range: 9 kHz to 9 GHz (usable down to 5 kHz)
- Spectrum Analyzer Accuracy: ± 0.3 dB (without warm-up)
- Real-Time Bandwidth: 120 MHz gap-free
- Output Power (with tracking generator option): Up to 1 dBm
- Test Port Connector: Type-N (f)
- Weight: 3.4 kg (7.4 lb)
- Dimensions: 11.5 in (H) $\times$ 7.4 in (W) $\times$ 3.2 in (L)

Key Features

- Spectrum analysis with immediate, accurate measurements
- Cable and antenna characterization
- I/Q data capture for RF signal monitoring and analysis
- 5G NR and LTE over-the-air measurement capability
- Radar pulse profile characterization
- Integrated power meter
- Optional tracking generator for extended measurement range
- Optional pre-amplifier for enhanced sensitivity
- Integrated GPS/GNSS for geolocation and timestamping
- Interference analysis with spectrogram display (Option 236)
- USB power sensor measurements versus frequency (Option N9935BU-208)
- Extended Range Transmission Analysis support (Option N9935BU-209)
- Optional remote control (N9935BU-030)

Typical Applications

- Field-based RF and microwave device testing
- 5G NR and LTE signal characterization
- Radar pulse analysis and profiling
- Interference identification and monitoring
- Cable and antenna validation

Compatibility & Integration

- Compatible with standard HP/Agilent/Keysight mechanical calibration kits and all Keysight USB ECal modules
- Supports 89600 VSA software for signal recording and evaluation
- LAN connectivity for data transfer
- Includes AC/DC adapter, rechargeable Li-ion battery, soft carrying case with backpack and shoulder straps, and quick reference guide

N9935B Characteristics / Specifications

PARAMETER	VALUE
Model	N9935B spectrum analyzer class FieldFox
Frequency Range	100 kHz to 9 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/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
Operating temperature	Class: minus 10 C to 55 C FieldFox class

N9935B Specifications

PARAMETER	VALUE
Key Features	Frequency coverage 100 kHz to 9 GHz
Technical Specifications	Model: N9935B spectrum analyzer class FieldFox
Notes	From Keysight FieldFox Handheld Analyzers data sheet 5990-9783 model row for N9935B spectrum analyzer class FieldFox.

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	N9935B spectrum analyzer class FieldFox
Frequency Range	100 kHz to 9 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 N9935B spectrum analyzer class FieldFox.

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.