

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9912A

The Keysight (formerly Agilent) N9912A FieldFox is a highly integrated, rugged handheld RF analyzer designed for wireless network installation and maintenance. It can be configured with capabilities including cable and antenna analysis, vector network analysis, spectrum analysis, and power measurements in a single weather-resistant package.

SPECIFICATIONS

General

Interfaces	2x USB 2.0 (Host), 1x mini-USB (Device), LAN (10/100Base-T), Micro SD card slot
Display	6.5-inch TFT color VGA (640 x 480), transfective with LED backlight

Physical

Power Supply	15 to 19 VDC (via AC/DC adapter)
Operating Temperature	-10 to +55 °C °C
Dimensions (W×H×D)	292 x 188 x 72 mm
Weight	2.7 kg kg

Spectrum Analyzer Specifications

Frequency Range (Option 230)	100 kHz to 4 GHz (Spectrum Analyzer)
Frequency Range (Option 231)	100 kHz to 6 GHz (Spectrum Analyzer)
Resolution Bandwidth (RBW) Range	10 Hz to 2 MHz
Video Bandwidth (VBW) Range	1 Hz to 2 MHz
Single Sideband (SSB) Phase Noise	-96 dBc/Hz @ 10 kHz offset (1 GHz, typical)
Third-Order Intercept (TOI)	+18 dBm (Typical)
Sweep Modes	Continuous, Single
Trace Types	Clear/write, max hold, min hold, average, view, blank
Detector Types	Peak, Negative Peak, Sample, Normal, Average

Cable and Antenna Analyzer Specifications

Frequency Range (Option 104)	2 MHz to 4 GHz (Cable & Antenna Analyzer)
Frequency Range (Option 106)	2 MHz to 6 GHz (Cable & Antenna Analyzer)
System Directivity (Corrected)	> 42 dB (QuickCal)
Measurement Types	Return loss, VSWR, distance-to-fault (DTF), 1-port cable loss
Return Loss Measurement Range	0 to 100 dB (0.01 dB resolution)
VSWR Measurement Range	1 to 100

Vector Network Analyzer (VNA) Specifications

Measurement Formats	Magnitude, Phase, Smith Chart (Option 303 dependent)
Calibration Types	QuickCal, CalReady, Mechanical Open-Short-Load (OSL)

Power Measurements

External USB Power Sensor Support	Yes (Keysight U2000 Series compatible)
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Inputs, Outputs, and Connectivity

RF Input Connector Type	Type-N (Female)
RF Input Impedance	50 Ω
External Reference Input (10 MHz)	BNC (Female), 50 Ω
External Trigger Input	BNC (Female)

Data Storage and Software

Supported License Options	Opt 104 (4 GHz CAT), Opt 106 (6 GHz CAT), Opt 230 (4 GHz SA), Opt 231 (6 GHz SA), Opt 303 (Network Analysis), Opt 235 (Preamplifier), Opt 236 (Interference Analyzer)
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Power and Battery

Battery Type	Lithium-ion
Battery Operating Time	4 hours (Typical)

Environmental and Regulatory

Storage Temperature Range	-51 to +71 $^{\circ}\text{C}$
Ingress Protection (IP) Rating	Designed to IP53
Shock and Vibration Rating	MIL-PRF-28800F Class 2

Spectrum Analyzer

Maximum Safe Input Level	+27 dBm, 50 VDC (RF IN port)
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Spectrum Analyzer Performance

Displayed Average Noise Level (DANL)	≤ -148 dBm/Hz (typical @ 1 GHz, Preamp ON)
Total Absolute Amplitude Accuracy	± 1.5 dB (standard)

Cable & Antenna Analyzer Performance

Distance to Fault (DTF) Modes	Return Loss, VSWR
Cable Loss Measurement	1-port (Standard)

Capabilities & Options

Transmission Measurement	Available via Option 110 (Scalar insertion loss)
QuickCal (Built-in Calibration)	Available via Option 111
Preamplifier	Available via Option 235
Interference Analyzer	Available via Option 236 (Spectrogram, Waterfall)
Vector Voltmeter	Available via Option 308

Environmental & Physical

Physical Security	Kensington lock slot
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TECHNOLOGY

RF / Microwave

APPLICATIONS

Wireless Network Installation, Cable and Antenna Maintenance, RF Troubleshooting

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.