

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9952A

The Keysight (formerly Agilent) N9952A FieldFox is a rugged, handheld microwave combination analyzer capable of operating up to 50 GHz. Designed for extreme environmental conditions and versatile field testing, it can be configured as a cable and antenna analyzer (CAT), full 2-port vector network analyzer (VNA), spectrum analyzer, and more.

SPECIFICATIONS

General

Display	6.5-inch TFT color LCD, VGA (640 x 480) with LED backlight
Warm-up Time	30 minutes (for specified accuracy)

Physical

Power Supply	15 to 19 VDC, 40 W maximum (charging)
Operating Temperature	-10 to 55 °C
Dimensions (WxHxD)	188 x 292 x 82 mm

Base Frequency & Timebase Specifications

Frequency Range (CAT)	300 kHz to 50 GHz
Frequency Reference Aging Rate	± 1 ppm/year

Vector Network Analyzer (VNA) Specifications

VNA Frequency Range	300 kHz to 50 GHz (Option 210 / 211)
Number of Data Points	101 to 10,001
IF Bandwidth Settings	10 Hz to 100 kHz

Spectrum Analyzer (SA) Specifications

SA Frequency Range	9 kHz to 50 GHz (Option 233)
Phase Noise (@ 10 kHz offset)	-111 dBc/Hz @ 1 GHz (typical)
Maximum Safe Input Level	+27 dBm / ± 40 VDC

Real-Time Spectrum Analyzer (RTSA) Specifications

Maximum Real-Time Bandwidth	10 MHz (Option 350)
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Connectors and Interfaces

Test Port Connectors (Port 1, Port 2)	2.4 mm (male)
Test Port Impedance	50 Ω
External Reference Input Connector	SMA (female)
External Trigger Input	SMA (female)

Power and Battery

Battery Type	Lithium-ion
Battery Operating Time	3.5 to 4 hours (typical)

Environmental and Regulatory

Storage Temperature Range	-51 °C to +71 °C
Ingress Protection (IP Rating)	IP53
Safety Compliance	IEC/EN 61010-1
Shock and Vibration Compliance	MIL-PRF-28800F Class 2

Inputs & Outputs

Audio Output	3.5 mm headphone jack, built-in speaker
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Measurement Options

Internal GPS Receiver	Available (Option 307), includes SMA (f) external antenna connector
Vector Voltmeter Mode	Available (Option 308)
Built-in Power Meter	Available (Option 310)

Display

Display Resolution	640 x 480 pixels (VGA)
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Connectivity & Control

Remote Programming	SCPI over LAN and USB
External Storage	microSD / microSDHC card slot, USB flash drive

VNA Characteristics

Calibration Methods Supported	CalReady, Mechanical, Electronic Calibration (ECal)
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Options & Upgrades

Full 2-Port S-Parameters	S11, S21, S12, S22 (with Option 211)
Time Domain (VNA)	Supported (with Option 010)
TDR Cable Measurements	Supported (with Option 215)
Real-Time Spectrum Analyzer (RTSA)	Supported (with Option 350)
Spectrum Analyzer Preamplifier	Supported (with Option 235)
Interference Analyzer and Spectrogram	Supported (with Option 236)
AM/FM/PM Analyzer	Supported (with Option 355)
Noise Figure Measurement	Supported (with Option 356)
Over-the-Air (OTA) LTE FDD/TDD	Supported (with Option 370)
Built-in Variable DC Voltage Source	Supported (with Option 309)
USB Power Sensor Support	Supported (with Option 302)

TECHNOLOGY

RF & Microwave

APPLICATIONS

Field test, maintenance, and installation of RF/microwave communication systems, radar, and satellite communications

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