

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9917B

The Keysight N9917B FieldFox is a high-performance handheld microwave analyzer operating up to 18 GHz. Designed for field testing, the B-Series FieldFox offers a capacitive touchscreen, rugged IP53-rated chassis, and integrates multiple instruments including a Cable and Antenna Analyzer (CAT), Vector Network Analyzer (VNA), Spectrum Analyzer (SA), and an independent RF signal source. It is engineered to withstand harsh environments while delivering laboratory-grade measurement accuracy.

SPECIFICATIONS

Physical

Power Supply	100 to 240 VAC, 50 to 60 Hz via external AC/DC adapter; 15 VDC, 4 A input
Dimensions (W×H×D)	292 mm x 188 mm x 72 mm mm
Weight	3.34 kg kg

General Frequency & System Specifications

VNA/CAT Frequency Range	300 kHz to 18 GHz
SA Frequency Range	9 kHz to 18 GHz (tunable to 5 kHz)
Frequency Resolution	1 Hz
VNA Sweep Points	101 to 10001

Vector Network Analyzer (VNA) Mode

VNA Parameters	S11, S21, S22, S12 (dependent on Option 211)
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Spectrum Analyzer (SA) Mode

Phase Noise (at 1 GHz, 10 kHz offset)	-111 dBc/Hz (typical)
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Power Meter & Receiver Capabilities

USB Power Sensor Support	Keysight U2000 Series, U8480 Series, and U2040 Series USB Power Sensors
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Calibration & Measurement Aids

Electronic Calibration (ECal) Support	Yes
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Hardware Interfaces & Connectivity

RF Port 1 Connector	Type-N female, 50 ohm
RF Port 2 Connector	Type-N female, 50 ohm

Data Storage, UI & Remote Control

Internal Storage	4 GB (nominal)
Command Languages	SCPI

Environmental & Ruggedness Standards

Storage Temperature Range	-51 to +71 °C (without battery)
IP Rating	IP53
Shock and Vibration Compliance	Meets MIL-PRF-28800F Class 2

Power, Battery & Physical Characteristics

Battery Operating Time	Up to 4 hours (typical)
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Analysis Bandwidth Options

Option B10 Analysis Bandwidth	100 MHz
Option B04 Analysis Bandwidth	40 MHz

Maximum Ratings

Maximum Average RF Input Power	+27 dBm (0.5 W)
Maximum DC Input Voltage	±50 VDC

GPS Receiver (Option 307)

GPS Antenna Connector	SMA female
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Ports & Connectivity

LAN Interface	1000BASE-T (Gigabit Ethernet) RJ-45
USB Host Ports	2x USB 2.0 Type-A
External Reference / Trigger Input	SMA female

Environmental

Operating Altitude	Up to 4,600 m (15,000 ft) on battery; Up to 3,000 m (9,840 ft) on AC adapter
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TECHNOLOGY

Handheld Microwave Analyzer

APPLICATIONS

Aerospace and defense, satellite communications, wireless network deployment, antenna testing, and general-purpose microwave field measurements.

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