Product Fact Sheet

Keysight FieldFox Microwave Vector Network Analyzers, 9/14/18/26.5 GHz

Delivers Benchtop Accuracy and MIL-Spec Durability to Field Applications

FieldFox brings bench-level accuracy into the field by delivering precise handheld microwave measurements that agree with benchtop analyzers. FieldFox VNAs provide full two-port S-parameter measurements with the most accurate calibration technique (full 2-port unknown thru), best trace noise (+0.004 dB up to 20 GHz over –10 to +55 °C) and 100 dB dynamic range. The VNAs also offer an industry-first QuickCal function, which enables hassle-free calibration without external accessories.

Key features

- – Full 2-port vector network analyzer (all 4 S-parameters magnitude and phase)
- – Cable and antenna analyzer (return loss/distance-to-fault)
- – CalReady, QuickCal, and Keysight mechanical cal kits support
- – Time domain analysis with gating
- – Built-in power meter
- – Vector voltmeter
- – Built-in GPS receiver

Key differentiators

- – Rugged and weather resistant:
  - – Meets MIL-PRF-28800F Class 2, no vents or fans, wide operating temp of –10 to +55 °C (14 to 131 °F)
  - – Meets IEC/EN 60529 IP53 requirements
  - – Type tested and meets Procedure 1 requirements for operation in explosive environments. MIL-810G, Method 511.5
- – Portable:
  - – Compact, light-weight 3.0 kg (6.6 lbs) package
- – Vector network analyzers:
  - – QuickCal and CalReady allow accurate testing of cable and antenna systems without the use of external calibration kits
  - – Vector network analyzer with innovative unknown thru cal provides accuracy for non-insertable device characterization

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Function	Description
Cable antenna analyzer and vector network analyzer	
Frequency	30 kHz to 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
Dynamic range	Up to 100 dB
Output power	Up to +1 dBm
General	
Environmental	Meets MIL-PRF-28800F Class 2
Temperature	Operating: –10 to +55 °C (14 to 131 °F)
Dimensions and weight	11.5" x 7.4" x 2.8" (292 x 188 x 72 mm), < 3.0 kg (6.6 lbs) with battery

Model number	Description
Option 010	Vector network analyzer time domain
Option 030	Remote control compatibility
Option 112	QuickCal
Option 211	Vector network analyzer: full 2-port S-parameters
Option 215	TDR cable measurements
Option 302	External USB power sensor support (U2000 sensor sold separately)
Option 307	Built-in GPS (antenna sold separately)
Option 308	Vector voltmeter
Option 309	DC bias variable-voltage source
Option 310	Built-in power meter

Model number	Description
N9910X	FieldFox accessories: Adapters, antennas, cables, etc.

FieldFox Microwave Vector Network Analyzer Options

The FieldFox base unit consists of VNA transmission/reflection, the following accessories are included: AC/DC adapter, 1 battery, soft carrying case, LAN cable, quick reference guide and user guide.

Model number	Frequency	Description
N9925A	9 GHz	FieldFox microwave vector network analyzer
N9926A	14 GHz	FieldFox microwave vector network analyzer
N9927A	18 GHz	FieldFox microwave vector network analyzer
N9928A	26.5 GHz	FieldFox microwave vector network analyzer

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