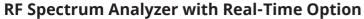
### **Quick Fact Sheet**

## **Field Master™ MS2080A** Handheld RF Spectrum Analyzer

9 kHz to 4/6 GHz



Anritsu's Field Master MS2080A 4 GHz RF Spectrum Analyzer is designed to offer the performance you need with the toughness required in a field portable instrument. Developed with 20 years' experience of designing RF test instruments for field technicians, the Field Master MS2080A integrates a spectrum analyzer, real-time spectrum analyzer (RTSA), cable and antenna analyzer, and LTE/5G base station tester into a single battery powered instrument.

Full span sweep speeds of 45 GHz/s coupled with -160 dBm DANL and  $\pm 1$  dB level accuracy delivers performance previously reserved for the lab into the field. Results and instrument settings are clearly displayed on a large 10-inch, high resolution multi-touch screen. The soft case provides an IP52 rating to protect from dust and rain while the screen exceeds the IK08 specification protecting against the knocks and drops inevitably experienced in the field. The 5 watts maximum input power prevents accidental power overload damage, which is the most common cause of field failures.

With the increase in RF communication systems, interference has become the biggest challenge for many operators. The Field Master MS2080A offers an array of features to identify and locate sources of RF interference. Its super-fast sweep speed used with a directional antenna enable rapid location of interferers. AM/FM audio demod help identify the source of the interferer while adding Anritsu's InterferenceHunter™ MA2700A handle with eCompass pinpoints the location on a digital map.

Validate cellular network performance with LTE and 5G base station measurement options. Cell site coverage is simplified with the coverage mapping option, highlighting coverage from individual PCIs. Add a Site Master S331P cable and antenna analyzer to complete the base station test capability.

The Field Master MS2080A delivers faster measurements in a field portable instrument with a comprehensive array of features for interference hunting and cellular base station testing.

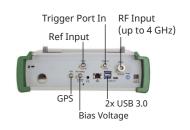


#### Field Master MS2080A Highlights

Spectrum Analysis from 9 kHz to 4/6 GHz	For coverage of common commercial RF communications bands
Spectrogram	To capture and record intermittent and drifting signals
RTSA	For real-time spectrum analysis with 2 µs POI
AM/FM Modulation Measurements	Simultaneous display of RF spectrum, Audio spectrum, Audio oscilloscope, Modulation quality, SINAD and THD
Smart Measurements	Includes channel power, occupied bandwidth, adjacent channel power, spectral emissions, C/I, and field strength measurements
Spectrum Record and Playback	To record traces and playback at slow speed to track all spectrum activity
USB Power Sensor Support	For precision power measurements of transmitters
Site Master Cable and Antenna Analyzer	For RF cable and antenna testing at transmitter sites
Zero Span	For pulse measurements
Quasi-Peak Detector	For CISPR compliant interference measurements
Interference Hunting	With directional antenna and eCompass handle
Cellular Measurements	5GNR FR1 and LTE FDD/TDD transmitter measurement suites
10-Inch Multi-Touch Display	Provides quick and easy configuration and results presentation
GNSS	GPS, Galileo, GLONASS, BeiDou
Connectivity	Ethernet, Wi-Fi, USBTMC, 2 x USB 3.0
Report Generator	Built in PDF/HTML report generator for CAA traces, screen captures and images







### **Quick Fact Sheet**

# **Field Master™ MS2080A** Handheld RF Spectrum Analyzer

9 kHz to 4/6 GHz



Spectrum Analyzer
Real-time Spectrum Analyzer (RTSA)
Interference Analyzer
True Power Meter
Cable and Antenna Analyzer
AM/FM Modulation Measurements
LTE FDD/TDD Base Station Analyzer
5GNR FR1 Base Station Analyzer
Coverage Mapping

### **Key Specifications**

Performance	
Sweep Speed	32 GHz/s, 45 GHz/s with Option 102
Phase Noise	-95 dBc/Hz @ 1 GHz Freq and 100 kHz Offset
DANL	< -160 dBm (with pre amp)
Input Damage Level	5 Watts
Measurement Range	DANL to +30 dBm
Frequency Accuracy	Aging: ±1.0 x 10 <sup>-6</sup> per Year Accuracy: ±0.28 x 10 <sup>-6</sup> (-10 °C ±5°C) Plus Aging
Amplitude Accuracy	±1 dB (±0.5 dB typical)
Resolution Bandwidth in Sweep Mode	1 Hz to 5 MHz
Resolution Bandwidth in Zero Span	10 Hz to 40 MHz
RTSA Bandwidth	40 MHz

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### **Key Features**

Feature	Specifications
Display	10.1 in, 1280 x 800 Color Capacitive Touchscreen
Traces	6 (with Trace Record and Play Back)
Detectors	Avg/RMS, Peak, Negative, Sample, Normal
Gated Sweep	For Time Gated Measurements
Markers	12 Markers Assignable to Any Trace
Limit Lines	Complex Limit Lines with Pass/Fail
Connectivity	Ethernet, USBTMC, 802.11 Wi-Fi
GNSS	GPS, GLONASS, Galileo, BeiDou
Audio Measurements	AM/FM modulation quality, audio spectrum, audio oscilloscope, THD and SINR
Battery Life	3 Hours with Internal, 6 Hours with Accessory Power Pack
Size	290 mm x 212 mm x 96 mm, (11.4 in x 8.3 in x 3.7 in)
Weight	3.8 kg (8.39 lb)

### **Instrument Options\***

Description
Field Master Spectrum Analyzer (Requires Option 704)
9 kHz to 4 GHz Spectrum Analyzer
High Accuracy Power Meter (requires compatible USB power sensor, sold separately)
Interference Finder (requires GNSS Receiver Option 31 and directional antenna, sold separately)
GPS Receiver (requires GPS antenna, sold separately)
Gated Sweep
40 MHz Analysis Bandwidth (20 MHz standard)
Real Time Spectrum Analyzer
Coverage Mapping (requires GPS Option MS2080A-0031)
AM/FM Modulation Measurements
LTE FDD/TDD Signal Analyzer
5GNR FDD/TDD FR1 Measurements (requires GPS Option MS2080A-0031)
Accredited Calibration to ISO1702 and ANSI/NCSL Z540-1
Standard Calibration to ISO1702 and ANSI/NCSL Z540-1
Premium Calibration to ISO1702 and ANSI/NCSL Z540-1 plus test data

<sup>\*</sup>Refer to the Technical Data Sheet for information on ordering time limited options.