Quick Fact Sheet

Spectrum Master™ MS2721B

MS2721B

9 kHz to 7.1 GHz

Benchtop Features and Bandwidth in a Handheld Spectrum Analyzer

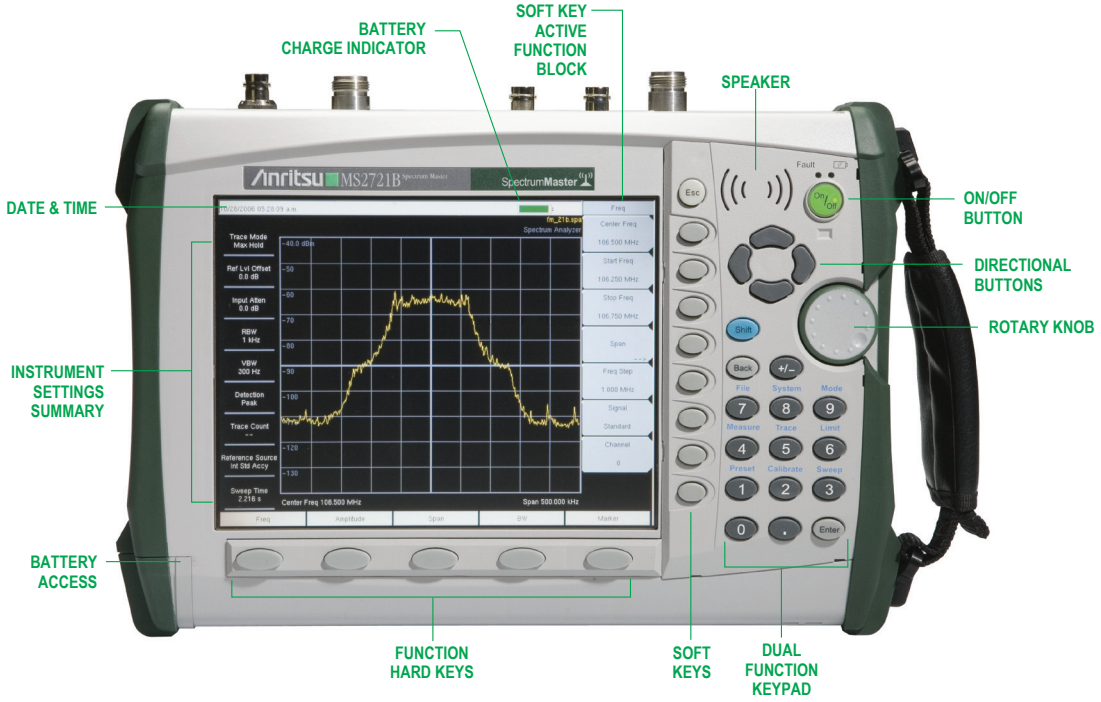
The MS2721B handheld spectrum analyzer is designed to conduct highly accurate analysis on the new wave of wireless LAN and cellular signals, including 802.11a, 3G, ultra-wideband, WiMAX, and wireless medical patient monitoring systems. This high performance handheld spectrum analyzer is ideal for AM and FM broadcast proofing because the wide dynamic range and low phase noise make NRSC measurements on analog and IBOC signals easy with no need for an external carrier notch filter. Weighing in at less than 7 pounds, it is equally at home on the engineering bench and in the field.

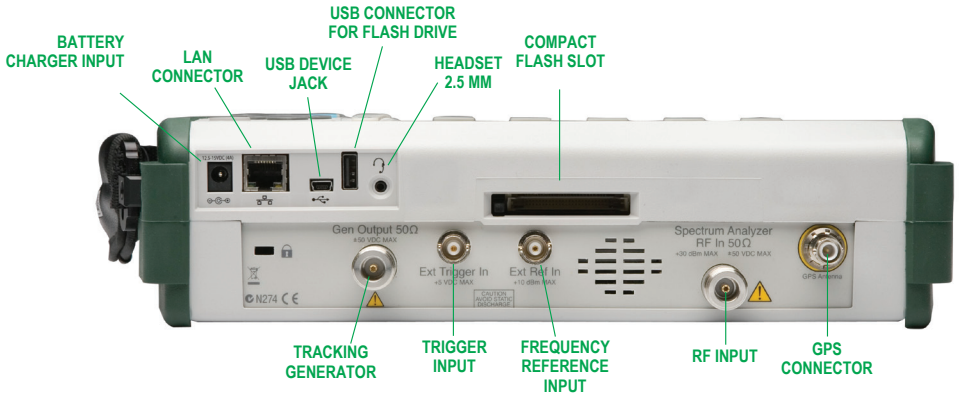
Spectrum and Interference Analyzer Key Features

- Handheld, battery-operated design weighing less than 7 lbs.
- RBWs: 1 Hz to 3 MHz in 1-3 sequence, VBWs: 1 Hz to 3 MHz in 1-3 sequence
- Normal, Max hold, Min hold, user settable trace averaging
- 6 Markers plus 6 delta markers or choose one marker with 6 delta markers
- Multi-segmented upper and lower limit lines

Spectrum Master Key Applications

- Transmitter Spectrum Analysis – occupied bandwidth, channel power, adjacent channel power ratio and modulation
- Received Signal Analysis – location and identification of in-band interference and out-of-band spurious signals and spectral masks
- Signal Strength Mapping – to determine the most suitable location for antennas, base stations and repeaters
- Field analysis of 3G signals – fast sweep speed, field-swappable battery, smart measurements and daylight-viewable display make the MS2721B an ideal choice for the challenge of rugged environments
- Broadcast measurement AM & FM analog and IBOC proofing measurements





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Key Specifications

Spectrum Analyzer	
Frequency	9 kHz to 7.1 GHz
Measure	Occupied Bandwidth, Channel Power, ACPR, C/I
Interference Analyzer	Spectrogram, Signal Strength, RSSI
Dynamic Range	> 101 dB in 1 Hz RBW
DANL	–163 dBm in 1 Hz RBW
Phase Noise	–95 dBc/Hz @ 10 kHz offset at 1 GHz
Frequency Accuracy	< ± 25 ppb with GPS On
RBW	1 Hz to 3 MHz Resolution Bandwidth
Traces	Normal, Max Hold, Min Hold, Average, # of Averages
Detectors	Peak, Negative, Sample, Quasi-peak, and true RMS
Markers	6, each with a Delta Marker, or 1 Reference with 6 Deltas
Limit Lines	Up to 40 segments with one-button envelope creation
Trace Save-on-Event	Crossing limit line or sweep complete
General	
Internal Trace	> 13,000 traces
External Trace	Limited by the size of the USB Flash drive or Compact Flash module
Connectivity	USB, LAN or Direct Ethernet connection
Display	Size 8.4”, Resolution 800 x 600
Temperature	Operating Temperature –10 ºC to 55 ºC
Battery	Li-Ion, 2.5 hours typical
Dimensions	315 mm x 211 mm x 77 mm (12.4 in x 8.3 in x 3.0 in)
Weight	3.1 kg (6.9 lbs.)

Standard Accessories

Part Number	Description
10580-00207	Spectrum Master User Guide (includes Bias-Tee and GPS Receiver)
2300-498	MST CD: Master Software Tools, User/Measurement Guides, Programming Manual, Troubleshooting Guides, Application Notes
65729	Soft Carrying Case
633-44	Rechargeable Li-Ion Battery
40-168-R	AC/DC Power Supply
806-141-R	Automotive Cigarette Lighter 12 Volt DC Adapter
3-806-152	Cat 5e Crossover Patch Cable, 7 feet/213 cm
2000-1371-R	Ethernet Cable, 7 feet/213 cm
3-2000-1498	USB A-mini B Cable, 10 feet/305 cm
2000-1520-R	USB Memory Drive
1091-27-R	Type-N male to SMA female adapter
1091-172	Type-N male to BNC female adapter
11410-00405	Spectrum Master™ MS2721B Technical Data Sheet One Year Warranty (Including battery, firmware, and software) Certificate of Calibration and Conformance

Optional Accessories

Portable Antennas

Precision Adapters

Options

Option Number	Description
Option 9	RF & Demodulation Hardware
Option 19	High Accuracy Power Meter (PSN50 sensor not included)
Option 20	Tracking Generator
Option 25	Interference Analysis - provides a spectrogram display, signal strength with audible tone and RSSI (received signal strength indication)
Option 27	Channel Scanner - adds the capability to select up to 20 channels or signals to monitor (Great for interference mitigation)
Option 30	ISDB-T Measurements (requires Option 009)
Option 31	GPS (includes GPS antenna)
Option 32	ISDB-T SFN Field Measurements (requires Option 009)
Option 33	cdmaOne / CDMA2000 1X Over The Air (OTA) Measurements (requires Option 009)
Option 34	CDMA2000 1xEV-DO Over The Air (OTA) Measurements (requires Option 009)
Option 35	W-CDMA/HSDPA OTA (requires Opt. 009)
Option 37	Mobile WiMAX, Over the Air (requires Option 009, recommend Option 31)
Option 38	TD-SCDMA / HSDPA Over the Air (requires Option 009, recommend Option 31)
Option 40	GSM/GPRS/EDGE RF Measurements (requires Option 009)
Option 41	GSM/GPRS/EDGE Demodulation (requires Opt. 009)
Option 42	cdmaOne / CDMA 2000 1X RF Measurements (requires Option 009)
Option 43	cdmaOne / CDMA2000 1X Demodulator (requires Option 009)
Option 44	W-CDMA/HSDPA RF Measurements (requires Option 009)
Option 45	W-CDMA Demodulator (requires Opt. 009)
Option 46	Fixed WiMAX RF Measurements (requires Option 009)
Option 47	Fixed WiMAX Demodulation (requires Option 009)
Option 57	DVB-T/H BER Measurements (requires Option 064)
Option 60	TD-SCDMA / HSDPA RF Measurements (requires Option 009)
Option 61	TD-SCDMA Demodulator (requires Option 009)
Option 62	CDMA2000 1xEV-DO RF Measurements (requires Option 009)
Option 63	CDMA2000 1xEV-DO Demodulator (requires Option 009)
Option 64	DVB - T/H Digital Video Measurements (requires Option 009)
Option 65	W-CDMA/HSDPA Demodulator (requires Option 009)
Option 66	Mobile WiMAX RF Measurement (requires Option 009)
Option 67	Mobile WiMAX Demodulation (requires Option 009)
Option 78	DVB-T/H SFN Measurement (requires Option 009)
Option 541	LTE RF Measurements (requires Option 009)
Option 542	LTE Modulation Measurements (requires Option 009)
Option 546	LTE Over-the-Air (OTA) Measurements (requires Option 009, recommend Option 31)

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www.anritsu.com or 1-800-267-4878

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