

Quick Fact Sheet

Spectrum Master™ MS2760A

Ultraportable mmWave Spectrum Analyzer



MS2760A 9 kHz up to 110 GHz

The Future of Performance and Affordability

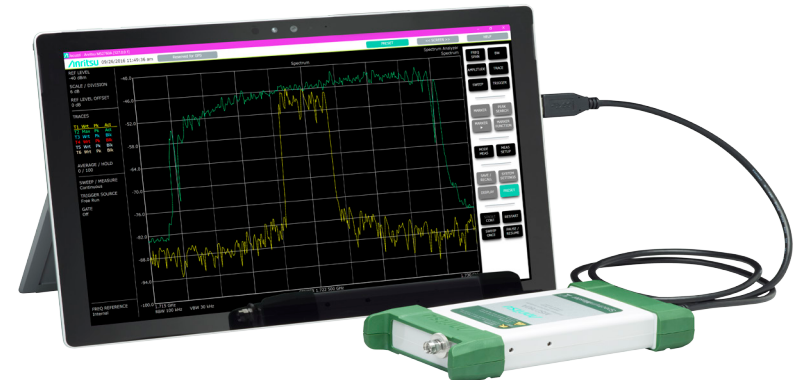
The Spectrum Master MS2760A is the world's first handheld millimeterwave (mmWave) spectrum analyzer to provide continuous coverage from 9 kHz up to 110 GHz. It is ideal for the growing 5G network development market, as well as other fast growing mmWave applications, like 802.11ad / WiGig, E-band microwave wireless communications, satellite communications, and automotive radar.

The Spectrum Master MS2760A is an innovative, new mmWave spectrum analyzer design. It delivers basic spectrum analysis capabilities well below the price point of traditional spectrum analyzers and in an unimaginably small form factor that operates from 9 kHz up to 110 GHz.

The Spectrum Master MS2760A is a direct conversion spectrum analyzer below 6.15 GHz and utilizes sampler-based conversion above 6.15 GHz. The sampler-based conversion of the Spectrum Master MS2760A exploits Anritsu's patented shockline non-linear transmission line (NLTL) sampling technology in a customized MMIC based RFIC. The Spectrum Master MS2760A also employs unique software algorithms to minimize image responses that may appear under certain use cases when wideband modulated and multi-tone signals are being analyzed.

Spectrum Master Ultraportable mmWave Highlights:

- mmWave capabilities for 5G, wireless backhaul, 802.11ad, satcom, and more
- Ultraportable form factor enables measurements right at the device under test
- Measure: channel power, adjacent channel power, occupied bandwidth
- Patented NLTL technology provides >100 dB dynamic range
- -127 dBm DANL to 110 GHz
- Up to 6 traces, 3 trace detectors, and 12 markers
- Dynamic Range: >103 dB from 6.15 GHz up to 70 GHz
- Resolution Bandwidth (RBW): 10 Hz to 3 MHz
- Phase Noise: -110 dBc/Hz @ 1 GHz, typical
- I/O: External 10 MHz Frequency Reference



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Key Specifications

Performance	
Frequency Range	MS2760A-0032 9 kHz — 32 GHz MS2760A-0044 9 kHz — 44 GHz MS2760A-0050 9 kHz — 50 GHz MS2760A-0070 9 kHz — 70 GHz MS2760A-0090 9 kHz — 90 GHz MS2760A-0110 9 kHz — 110 GHz
Dynamic Range	> 103 dB at 110 GHz
Phase Noise	-110 dBc/Hz @ 10 kHz offset at 1 GHz
RF Connector	K (m) connector MS2760A-0032, MS2760A-0044 V (m) connector MS2760A-0050, MS2760A-0070 W (m) connector MS2760A-0090, MS2760A-0110
Amplitude Accuracy	±1 dB, typical
Frequency Accuracy	Accuracy: ± 0.2 ppm (25° C ± 25° C) + aging Aging: ± 1.0 ppm/years
General	
Save/Recall	Save As, Save (Measurement, Set-up PNGm Limit Line), Recall, Save on Event (Crossing Limit, Sweep Complete, Save at Interval)
USB Interface	USB 3.0, type C Connector
External Reference In	MCX(f), 50 Ω, 10 MHz
Display Resolution	16:9/16:10 Aspect Ratio (>1280 x 720/1280 x 800)
Operating System	Windows® 7, 8.1, 10
Minimum Configuration	Quad Core i7 fourth generation or higher CPU, 16 GB RAM, 128 GB Data Storage, USB 3.0
Operating Temperature	-10° C to 50° C
Maximum Humidity	95% non-condensing
Storage	-40° C to 71° C
Warranty	Standard three-year warranty
Size	155mm x 84mm x 27mm (6.1 in x 3.3 in x 1.1 in)
Weight	255g (9.0 oz)

Ordering Information

Part Number	Description
MS2760A-0032	Spectrum Master, ultraportable spectrum analyzer, 9 kHz to 32 GHz
MS2760A-0044	Spectrum Master, ultraportable spectrum analyzer, 9 kHz to 44 GHz
MS2760A-0050	Spectrum Master, ultraportable spectrum analyzer, 9 kHz to 50 GHz
MS2760A-0070	Spectrum Master, ultraportable spectrum analyzer, 9 kHz to 70 GHz
MS2760A-0090	Spectrum Master, ultraportable spectrum analyzer, 9 kHz to 90 GHz
MS2760A-0110	Spectrum Master, ultraportable spectrum analyzer, 9 kHz to 110 GHz
2300-1859-R	USB 3.0 Type C to Type A Cable
2300-1605-R	BNC(m) to MCX(m) Cable (qty 2), Certificate of Calibration and Conformance

Accessories

Part Number	Description
760-291-R	Transit Case
2000-1888-R	10m USB 3.0 Active Extension Cable
34VFK50	DC to 40 GHz, V(f) to K(m) Coax Adapter, 50 Ω
34WVF50	DC to 70 GHz, W1(f) to V(m) Coax Adapter, 50 Ω
35WR15VF	50.0 GHz to 65.0 GHz, WR15 to V(f) Waveguide Adapter
1091-401-R	60.5 GHz to 92 GHz, WR12 to W(f) Waveguide Adapter
35WR10WF	75 GHz to 110 GHz, WR10 to W(f) Waveguide Adapter
2000-1871-R	49.9 GHz to 75.8 GHz, WR15 Horn Antenna, 25 dBi gain
2000-1872-R	60.0 GHz to 90.0 GHz, WR12 Horn Antenna, 25 dBi gain

Product Options

Part Number	Description
MS2760A-0xxx-0098	Standard Calibration (ISO/IEC 17025 and ANSI/NCSL Z540-1)
MS2760A-0xxx-0099	Premium Calibration (ISO/IEC 17025 and ANSI/NCSL Z540-1 plus test data)

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