

Spectrum Master™ MS2760A

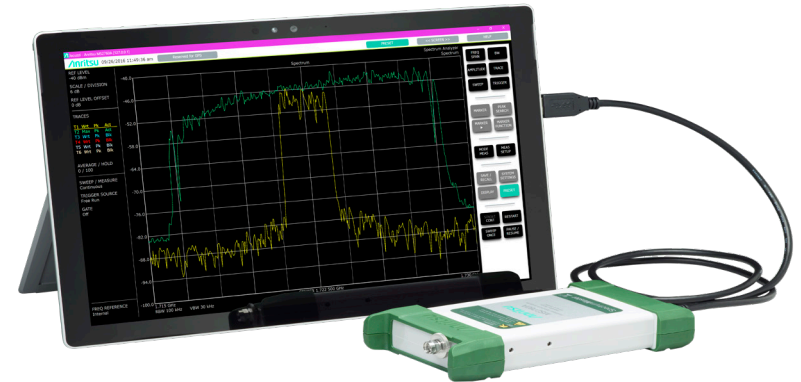
Ultraportable mmWave Spectrum Analyzer

9 kHz up to 110 GHz

The Future of Performance and Affordability

The Spectrum Master MS2760A is the world's first handheld millimeter-wave (mmWave) spectrum analyzer to provide continuous coverage from 9 kHz 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 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 utilizes Anritsu's patented shockline nonlinear 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 110 GHz
- Resolution Bandwidth (RBW): 1 Hz to 3 MHz
- Phase Noise: -116 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	-116 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, Setup 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	0° 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 GHz to 65 GHz, WR15 to V(f)
1091-401-R	60.5 GHz to 92.0 GHz, WR12 to W1(f)
35WR10WF	75 GHz to 110 GHz, WR10 to W1(f)
2000-1871-R	49.9 GHz to 75.8 GHz, WR15, 25 dBi gain
2000-1872-R	60.0 GHz to 90.0 GHz, WR12, 25 dBi gain
2000-1873-R	75.0 GHz to 110.0 GHz, WR10, 25 dBi gain
2000-1929-R	Low Noise Amplifier, 18 GHz to 42 GHz, 28 dB Gain, V(m)-V(f)
2000-1930-R	Low Noise Amplifier, 18 GHz to 42 GHz, 28 dB Gain, K(m)-K(f)

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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