

Spectrum Master™ MS2760A

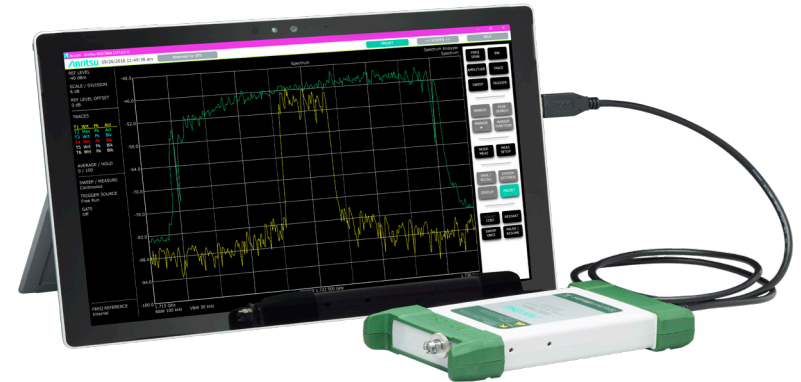
Ultraportable mmWave Spectrum Analyzer

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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