

# Spectrum Master™ MS2760A Ultraportable mmWave Spectrum Analyzer

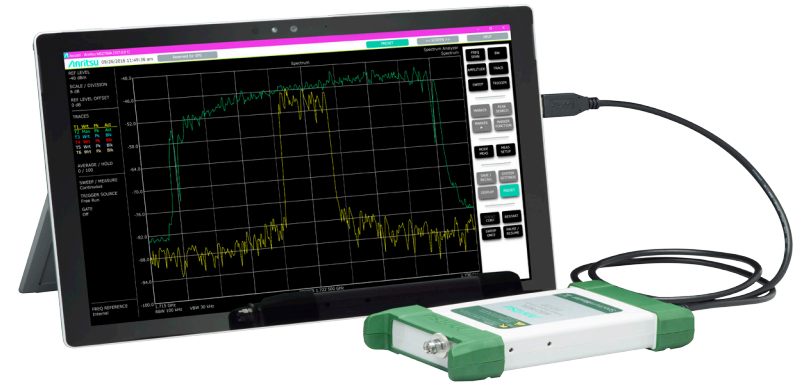
**MS2760A** 9 kHz up to 110 GHz

## The Future of Performance and Affordability

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

The 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 MS2760A exploits Anritsu's patented NLTL sampling technology in a customized MMIC based RFIC. The 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
- 110 GHz sweep in under 12 seconds
- -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: -116 dBc/Hz @ 1 GHz
- I/O: External 10 MHz Frequency Reference



# Spectrum Master™ MS2760A

## Ultraportable mmWave Spectrum Analyzer

### Key Specifications

| Performance           |   |
|-----------------------|---|
| Frequency Range       | MS2760A-0032 9 kHz — 32 GHz<br>MS2760A-0044 9 kHz — 44 GHz<br>MS2760A-0050 9 kHz — 50 GHz<br>MS2760A-0070 9 kHz — 70 GHz<br>MS2760A-0090 9 kHz — 90 GHz<br>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<br>V (m) connector MS2760A-0050, MS2760A-0070<br>W (m) connector MS2760A-0090, MS2760A-0110  |
| Amplitude Accuracy    | ±1 dB, typical  |
| Frequency Accuracy    | Accuracy: ± 0.2 ppm (25° C ± 25° C) + aging<br>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                                       |
|-------------|---|
| 2000-1888-R | 10m USB 3.0 Active Extension Cable                |
| 34VFK50     | DC to 40 GHz, V(f) to K(m) Coax Adapter, 50 Ω     |
| 34WV50      | DC to 70 GHz, W1(f) to V(m) Coax Adapter, 50 Ω    |
| 35WR15VF    | 50.0 to 65.0 GHz, WR15 to V(f) Waveguide Adapter  |
| 1091-401-R  | 60.5 to 92 GHz, WR12 to W(f) Waveguide Adapter    |
| 35WR10WF    | 75 to 110 GHz, WR10 to W(f) Waveguide Adapter     |
| 2000-1871-R | 49.9 to 75.8 GHz, WR15 Horn Antenna, 25 dBi gain  |
| 2000-1872-R | 60.0 to 90.0 GHz, WR12 Horn Antenna, 25 dBi gain  |
| 2000-1873-R | 75.0 to 110.0 GHz, WR10 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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