

## Product Release Note

SN-3254

Internal Product Release Note: May 15, 2024

External Product Launch: May 21, 2024

### **New Site Master™ MS2085A Cable and Antenna Analyzer from 5 kHz to 4/6 GHz and MS2089A Cable and Antenna Analyzer from 5 kHz to 4/6 GHz with Spectrum Analyzer from 9 kHz to 4/6 GHz.**



#### **Introduction**

Anritsu is proud to announce the release of the next generation of Site Master MS2085A Cable and Antenna Analyzer (CAA) and MS2089A CAA with Spectrum Analyzer (SPA). The frequency range of the new Site Master CAA covers from 5 kHz up to 6 GHz while the SPA covers from 9 kHz up to 6 GHz. For the MS2089A the CAA and SPA top frequency must be the same. You cannot have a 4 GHz CAA with a 6 GHz SPA, they must be matching. Tested, trusted, and supported, the new Site Master builds on the storied legacy of the Site Master product line.

The performance enhancements in the new Site Master models are extensive. For our cable and antenna analyzer, we have significantly increased sweep and mode switching speeds, added built-in PDF report generation, and introduced the ability to edit and modify the cable list directly on the device. Our new ReadyCal and InstaCal allow operators to calibrate their instruments faster. With TDR-like measurements, we are arming the users with more information before they make a repair.

Our spectrum analyzer is the fastest on the market, sweeping up to 45 GHz/s. Furthermore, we have 40 MHz of analysis bandwidth to see a large section of the spectrum. With IQ capture/streaming, users can record any signal. The redesigned, intuitive user interface enhances usability without compromising the rugged durability, exceptional battery life, or the comprehensive support and certified training that Anritsu customers have come to expect. These improvements ensure that the Site Master series continues to lead the industry, providing our users with tools that are not only powerful but also straightforward to use in any field condition.

#### **Target Markets and Applications**

The Site Master is renowned in the installation and maintenance sectors, and we proudly advance this legacy with the launch of the MS2085A and MS2089A models. The MS2089A Site Master, a multifaceted instrument, incorporates the same robust Spectrum Analyzer (SPA) as Anritsu's acclaimed Field Master MS2080A, alongside our newly developed Cable and Antenna Analyzer (CAA) featured in both the MS2085A and MS2089A. This new generation of Site Master not only enhances our existing offerings but also expands our reach into diverse markets, including government, aerospace, and general-purpose measurements, reinforcing our commitment to versatility and excellence in the field.

## Product Positioning

### Military, Government, and Aerospace

Customers in the military, government, and aerospace sectors require robust and secure tools to support their complex and sensitive operations. These include deploying satellite communications, maintaining antenna and cable systems, and monitoring for interference or electronic warfare activities. To meet these needs, the new Site Master not only provides dependable performance, but also incorporates enhanced security features critical for these high-stakes environments.

The new Site Master addresses the cybersecurity concerns of military/government customers through advanced options such as data encryption in transit and GUI password protection available with Option 17 (Secure Communication). These features ensure that sensitive data remains protected during critical operations.

Here are some key applications the new Site Master supports:

- **Remote Spectrum Monitoring:** Functions as a node in a remote spectrum system to detect illegal transmissions near military bases or government facilities (MS2089A).
- **Interference Location:** Utilizes tools like the Mobile InterferenceHunter and Handheld InterferenceHunter to locate sources of interference, helping enforce regulatory requirements.
- **Enhanced Security:** Offers secure communication options to encrypt data in transit and close unnecessary ports, aligning with stringent cybersecurity protocols.
- **Military Antenna System Testing:** Provides comprehensive testing of military antenna systems for tactical radios, ensuring optimal performance and reliability.
- **Cable Testing and Verification:** Conducts rigorous testing and verification of cables in military vehicles, ships, and aircraft to prevent failures and ensure system integrity.
- **Communication Coverage Mapping:** Supports outdoor and indoor coverage mapping of communications networks on military bases, covering LTE, 5G, and analog AM/FM systems.

These capabilities make Site Master an essential tool for mil/gov/aerospace customers, enabling them to maintain high security and reliability in their communications and monitoring systems.

### Installation and Maintenance

The new Site Master extends our longstanding tradition as the go-to instrument for Installation and Maintenance (I&M) professionals, bringing a wealth of features tailored to a diverse range of applications and customer needs. This instrument is designed to support the efficiency and precision required in modern telecommunications and infrastructure maintenance.

Here are some of the key features, applications, and customers of the new Site Master:

- **Distributed Antenna System (DAS) Installation and Maintenance:** Ideal for the setup and ongoing maintenance of DAS systems across large campuses, ensuring optimal signal distribution and network performance.
- **Interference Resolution:** Equipped to locate and resolve interference issues caused by Passive Intermodulation (PIM), crucial for maintaining clear communications in complex network environments.
- **Support for Satellite Communications:** Provides essential tools for satellite communications companies managing gateways and mobile earth stations, facilitating accurate installation and troubleshooting.
- **Aerospace and Defense Applications:** Meets the stringent requirements of aerospace and defense manufacturers, supporting the deployment and maintenance of sophisticated communication systems.
- **Local Municipality Support:** Assists local municipalities in maintaining critical communication infrastructures, essential for public safety and service continuity.
- **5G and LTE Network Support:** Tailored for the installation and maintenance of 5G and LTE base stations, ensuring these next-generation networks meet performance expectations.
- **Enhanced Data Management:** Features built-in PDF report generation and robust capabilities to edit, add, modify, import, and export cable lists directly on the instrument, streamlining workflow and documentation.

These capabilities underscore Site Master's role as an indispensable tool for professionals across various sectors, enhancing their ability to deploy, maintain, and optimize critical communication networks efficiently and securely.

### Key Features and Benefits

Key Features of MS2085A	Benefit to Customer
5 kHz to 4 GHz / 6 GHz CAA	Covers common RF bands and widely used cable types. Starting at 5 kHz allows for longer DTF and meets lower frequency requirements.
350 $\mu$ s/pt in Fast Mode	Allowing for faster calibration and faster sweeping of line.
10 inch IK08 Touch Screen	All critical information is on one bright screen that is very durable and won't break easily.
Up to 9 hours of Battery Life	5 hours with battery and 9 with external battery pack, allowing for longer use time.
Built-in PDF Report Generator	Allows the user to create a close-out report on the instrument.
Enhanced Cable List	Allows users to edit, add, copy, import, and export cables all on the instrument.
Anritsu Report Tool (ART)	ART is the new software tool to replace LST. It will have most of the functions of LST. It is a component of the Anritsu Remote and Report Tools (ARRT) software package and will be discussed in a separate PRN.

Key Features of MS2089A	Benefit to Customer
5 kHz to 4 GHz / 6 GHz CAA 9 kHz to 4 GHz / 6 GHz SPA	One combination instrument for installation and maintenance of cables and antennas and to perform measurement of the spectrum saving time and lowering total cost of ownership.
IQ Capture/Streaming	Ability to record, stream, and perform analysis of known/unknown signals for research, diagnostic, or signals intelligence.
Secure Communication	Enhances network security for government, military, and defense customers.
RTSA	Real-time spectrum analysis with 2 $\mu$ s POI.
45 GHz/s Sweep Speed	Up to 12x faster than the MS2712E.
5G/4G VSA Measurements	LTE and 5G FR1 suite of measurements to validate installation.
Channel Scanner	Quickly perform channel power measurements for up to 60 channels.

### Sales Collateral and Marketing Support Materials

The following web pages and collateral items have been created or updated at launch.

Part Number	Title / Description
10100-00069	Product Information, Compliance, and Safety
11410-02920	Product Brochure
11410-02921	Quick Fact Sheet
11410-02906	Technical Data Sheet
10580-00499	User Guide
10580-00502	Programming Manual
10580-00500	Maintenance Manual

### Demo Units / Upgrades

Factory demonstration instruments will be shipped to all Anritsu regional offices at the end of May 2024. Individual field sales offices are encouraged to purchase additional demonstration units.

For the MS2085A, all General Options are software enabled except for Option 21, 2-port Transmission Measurement. For the MS2089A, all General Options are software enabled. Software enabled options may be purchased initially free of charge by Field Offices for demo end-use.

### Transition Time / Order on the Books / Contracts

With the introduction of our new Site Master MS2085A and MS2089A models, we will be phasing out the S3xxE E-Series Site Master instruments. These models will be available for purchase until November 15, 2024. A separate sales note will be released announcing the obsolescence of the S3xxE instruments.

We will honor all existing orders for the S3xxE instruments.

We encourage you to reach out to customers who have long-term contracts for the S3xxE instruments and begin transitioning them to the new MS2085A and MS2089A models at your earliest convenience. This will ensure a smooth update to the latest technology and continued excellence in service.

### External Product Launch

Following the internal launch, Anritsu employees will have access to marketing materials on Fleekdrive. It is important to note that these materials should not be shared externally until the official public launch date.

All customer-facing content, including updates to the website and the launch video, will be withheld until the external launch. This ensures a coordinated and impactful release.

The external launch is scheduled for Tuesday, May 21, 2024. Please mark your calendars and prepare for a successful rollout.

### New Product Pricing and Delivery

The following new items will be available to order on Tuesday, May 21, 2024, and will be added to the next M3US price list issued. Initial delivery of the product will be 4 weeks ARO.

Part Number	Description	Warranty	ECCN	Regional List Prices - all prices are in US\$	
				U.S. & Americas	Asia / Japan / EMEA
<b>MS2085A Series</b>					
MS2085A	Site Master Cable and Antenna Analyzer (Must be ordered with ONE Frequency Option)	3 years	3A992	\$1,240	\$1,305
<b>Frequency Options (Must order ONE frequency option)</b>					
MS2085A-0804	Option 804, CAA Frequency Range 5 kHz to 4 GHz		3A992	\$8,525	\$8,955
MS2085A-0806	Option 806, CAA Frequency Range 5 kHz to 6 GHz			\$10,025	\$10,530
<b>General Options</b>					
MS2085A-0003	Option 3, Time Domain Reflectometry Measurement		3D991	\$1,305	\$1,375
MS2085A-0017	Option 17, Secure Communication			\$1,310	\$1,380
MS2085A-0019	Option 19, High Accuracy Power Meter (Requires USB sensor, sold separately)		EAR99	\$760	\$800
MS2085A-0021	Option 21, 2-port Transmission Measurement		3A992	\$4,495	\$4,720
MS2085A-0031	Option 31, GNSS receiver (Requires GNSS antenna, sold separately)		3D991	\$600	\$630

Part Number	Description	Warranty	ECCN	Regional List Prices - all prices are in US\$	
				U.S. & Americas	Asia / Japan / EMEA
<b>Time-Limited Options</b>					
MS2085A-9003	Option 3, Time Domain Reflectometry Measurement (90-day time limited)		3D991	\$330	\$347
MS2085A-9019	Option 19, High Accuracy Power Meter (Requires USB sensor, sold separately) (90-day time limited)			\$190	\$200
MS2085A-9031	Option 31, GNSS receiver (Requires GNSS antenna) (90-day time limited)			\$150	\$158
<b>Calibration Options</b>					
MS2085A-0804-0097	Option 97, Accredited Calibration		EAR99	\$2,535	\$2,665
MS2085A-0804-0098	Option 98, Standard Calibration			\$1,300	\$1,365
MS2085A-0804-0099	Option 99, Premium Calibration			\$1,950	\$2,050
MS2085A-0806-0097	Option 97, Accredited Calibration			\$2,535	\$2,665
MS2085A-0806-0098	Option 98, Standard Calibration			\$1,300	\$1,365
MS2085A-0806-0099	Option 99, Premium Calibration			\$1,950	\$2,050
<b>MS2089A Series</b>					
MS2089A	Site Master Cable and Antenna Analyzer with Spectrum Analyzer (Must be ordered with ONE SPA and ONE CAA Frequency Option)	3 Years	3A992	\$1,240	\$1,305
<b>Frequency Options (Must order ONE SPA and ONE CAA frequency option)</b>					
MS2089A-0704	Option 704, SPA Frequency Range 9 kHz to 4 GHz (Requires Option 804)		3A992	\$6,115	\$6,425
MS2089A-0706	Option 706, SPA Frequency Range 9 kHz to 6 GHz (Requires Option 806)			\$9,845	\$10,340
MS2089A-0804	Option 804, CAA Frequency Range 5 kHz to 4 GHz (Requires Option 704)			\$8,525	\$8,955
MS2089A-0806	Option 806, CAA Frequency Range 5 kHz to 6 GHz (Requires Option 706)			\$10,025	\$10,530
<b>General Options</b>					
MS2089A-0003	Option 3, Time Domain Reflectometry Measurement		3D991	\$1,305	\$1,375
MS2089A-0017	Option 17, Secure Communication			\$1,310	\$1,380
MS2089A-0019	Option 19, High Accuracy Power Meter (Requires USB sensor, sold separately)			\$760	\$800
MS2089A-0021	Option 21, 2-port Transmission Measurement			\$1,910	\$2,010
MS2089A-0024	Option 24, Interference Finder (Option 31 and directional antenna recommended)			\$2,680	\$2,815
MS2089A-0027	Option 27, Channel Scanner			\$2,445	\$2,570
MS2089A-0031	Option 31, GNSS receiver (Requires GNSS antenna, sold separately)			\$600	\$630

Part Number	Description	Warranty	ECCN	Regional List Prices - all prices are in US\$	
				U.S. & Americas	Asia / Japan / EMEA
MS2089A-0090	Option 90, Gated sweep		3D991	\$870	\$915
MS2089A-0102	Option 102, 40 MHz analysis bandwidth			\$5,090	\$5,345
MS2089A-0126	Option 126, IQ Waveform Capture (Includes MX280005A IQ Signal Master base feature set)			\$3,130	\$3,290
MS2089A-0127	Option 127, IQ Waveform Streaming (Includes MX280005A IQ Signal Master base feature set) (Requires Option 126)			\$2,175	\$2,285
MS2089A-0128	Option 128, Enable Vector Signal Analysis (Requires Option 126)			\$5,235	\$5,500
MS2089A-0199	Option 199, Real-time spectrum analysis (RTSA)			\$5,090	\$5,345
MS2089A-0400	Option 400, Enable Vision Monitor			\$6,390	\$6,710
MS2089A-0407	Option 407, Enable Vision High-Speed Port Scanner			\$10,860	\$11,405
MS2089A-0431	Option 431, Coverage Mapping (Requires Option 31)			\$3,645	\$3,830
MS2089A-0444	Option 444, EMF Measurement (Requires Anritsu isotropic antenna, sold separately)			\$6,215	\$6,530
MS2089A-0509	Option 509, AM/FM Modulation Measurements			\$835	\$880
MS2089A-0871	Option 871, WCDMA FDD Measurements (Requires Option 31)			\$5,500	\$5,775
MS2089A-0883	Option 883, LTE FDD/TDD Measurements (Requires Option 31)			\$6,030	\$6,335
MS2089A-0888	Option 888, 5G NR Downlink Measurements (Requires Option 31)			\$7,450	\$7,825
<b>Time-Limited Options</b>					
MS2089A-9003	Option 3, Time Domain Reflectometry Measurement (90-day time limited)		3D991	\$330	\$347
MS2089A-9019	Option 19, High Accuracy Power Meter (Requires USB sensor, sold separately) (90-day time limited)			\$190	\$200
MS2089A-9021	Option 21, 2-port Transmission Measurement (90-day time limited)			\$480	\$505
MS2089A-9024	Option 24, Interference Finder (Option 31 and directional antenna recommended) (90-day time limited)			\$670	\$705
MS2089A-9027	Option 27, Channel Scanner (90-day time limited)			\$615	\$650
MS2089A-9031	Option 31, GNSS receiver (Requires GNSS antenna, sold separately) (90-day time limited)			\$150	\$158
MS2089A-9090	Option 90, Gated sweep (90-day time limited)			\$220	\$231
MS2089A-9102	Option 102, 40 MHz analysis bandwidth (90-day time limited)			\$1,275	\$1,340
MS2089A-9126	Option 126, IQ Waveform Capture (Includes MX280005A IQ Signal Master base feature set) (90-day time limited)			\$785	\$825

Part Number	Description	Warranty	ECCN	Regional List Prices - all prices are in US\$	
				U.S. & Americas	Asia / Japan / EMEA
MS2089A-9127	Option 127, IQ Waveform Streaming (Includes MX280005A IQ Signal Master base feature set) (Requires Option 126 or 9126) (90-day time limited)		3D991	\$545	\$575
MS2089A-9128	Option 128, Enable Vector Signal Analysis (Requires Option 126 or 9126) (90-day time limited)			\$1,310	\$1,380
MS2089A-9199	Option 199, Real-time spectrum analysis (RTSA) (90-day time limited)			\$1,275	\$1,340
MS2089A-9400	Option 400, Enable Vision Monitor (90-day time limited)			\$1,600	\$1,680
MS2089A-9407	Option 407, Enable Vision High-Speed Port Scanner (90-day time limited)			\$2,715	\$2,855
MS2089A-9431	Option 431, Coverage Mapping (Requires Option 31 or 9031) (90-day time limited)			\$915	\$965
MS2089A-9444	Option 444, EMF Measurement (Requires Anritsu isotropic antenna, sold separately) (90-day time limited)			\$1,555	\$1,635
MS2089A-9509	Option 509, AM/FM Modulation Measurements (90-day time limited)			\$210	\$221
MS2089A-9871	Option 871, WCDMA FDD Measurements (Requires Option 31) (90-day time limited)			\$1,375	\$1,445
MS2089A-9883	Option 883, LTE FDD/TDD Measurements (Requires Option 31 or 9031) (90-day time limited)			\$1,510	\$1,590
MS2089A-9888	Option 888, 5G NR Downlink Measurements (Requires Option 31 or 9031) (90-day time limited)			\$1,865	\$1,960
<b>Calibration Options</b>					
MS2089A-0704-0097	Option 97, Accredited Calibration		EAR99	\$2,535	\$2,665
MS2089A-0704-0098	Option 98, Standard Calibration			\$1,300	\$1,365
MS2089A-0704-0099	Option 99, Premium Calibration			\$1,950	\$2,050
MS2089A-0706-0097	Option 97, Accredited Calibration			\$2,535	\$2,665
MS2089A-0706-0098	Option 98, Standard Calibration			\$1,300	\$1,365
MS2089A-0706-0099	Option 99, Premium Calibration			\$1,950	\$2,050
<b>Accessories</b>					
ICN51A	USB InstaCal Module, 6 GHz		EAR99	\$1,390	\$1,530

### Extended Service Options

The following Extended Service Options are also available and will be added to the next M3US price list issued.

Model/Part Number	Product Description	U.S. & Americas	Asia / Japan / EMEA
<b>MS2085A-0804</b>			
MS2085A-0804-ES312	3 Year Extended Service - Return to Anritsu Standard Calibration	\$2,340	Contact Svc Ctr
MS2085A-0804-ES315	3 Year Extended Service - Return to Anritsu Premium Calibration	\$3,924	
MS2085A-0804-ES510	5 Year Extended Service - Return to Anritsu Repair Only	\$360	
MS2085A-0804-ES512	5 Year Extended Service - Return to Anritsu Standard Calibration	\$4,500	Contact Svc Ctr
MS2085A-0804-ES513	5 Year Extended Service - Return to Anritsu Standard Calibration	\$4,860	
MS2085A-0804-ES515	5 Year Extended Service - Return to Anritsu Premium Calibration	\$7,440	
MS2085A-0804-ES516	5 Year Extended Service - Return to Anritsu Repair and Premium Calibration	\$7,800	
<b>MS2085A-0806</b>			
MS2085A-0806-ES312	3 Year Extended Service - Return to Anritsu Standard Calibration	\$2,592	Contact Svc Ctr
MS2085A-0806-ES315	3 Year Extended Service - Return to Anritsu Premium Calibration	\$4,320	
MS2085A-0806-ES510	5 Year Extended Service - Return to Anritsu Repair Only	\$420	
MS2085A-0806-ES512	5 Year Extended Service - Return to Anritsu Standard Calibration	\$4,920	Contact Svc Ctr
MS2085A-0806-ES513	5 Year Extended Service - Return to Anritsu Standard Calibration	\$5,340	
MS2085A-0806-ES515	5 Year Extended Service - Return to Anritsu Premium Calibration	\$8,160	Contact Svc Ctr
MS2085A-0806-ES516	5 Year Extended Service - Return to Anritsu Repair and Premium Calibration	\$8,580	
<b>MS2089A-0704</b>			
MS2089A-0704-ES312	3 Year Extended Service - Return to Anritsu Standard Calibration	\$3,132	Contact Svc Ctr
MS2089A-0704-ES315	3 Year Extended Service - Return to Anritsu Premium Calibration	\$4,680	
MS2089A-0704-ES510	5 Year Extended Service - Return to Anritsu Repair Only	\$600	
MS2089A-0704-ES512	5 Year Extended Service - Return to Anritsu Standard Calibration	\$5,940	Contact Svc Ctr
MS2089A-0704-ES513	5 Year Extended Service - Return to Anritsu Standard Calibration	\$6,540	



Model/Part Number	Product Description	U.S. & Americas	Asia / Japan / EMEA
MS2089A-0704-ES515	5 Year Extended Service - Return to Anritsu Premium Calibration	\$8,880	Contact Svc Ctr
MS2089A-0704-ES516	5 Year Extended Service - Return to Anritsu Repair and Premium Calibration	\$9,480	
<b>MS2089A-0706</b>			
MS2089A-0706-ES312	3 Year Extended Service - Return to Anritsu Standard Calibration	\$3,420	Contact Svc Ctr
MS2089A-0706-ES315	5 Year Extended Service - Return to Anritsu Premium Calibration	\$5,148	
MS2089A-0706-ES510	5 Year Extended Service - Return to Anritsu Repair Only	\$840	
MS2089A-0706-ES512	5 Year Extended Service - Return to Anritsu Standard Calibration	\$6,480	Contact Svc Ctr
MS2089A-0706-ES513	5 Year Extended Service - Return to Anritsu Standard Calibration	\$7,320	
MS2089A-0706-ES515	5 Year Extended Service - Return to Anritsu Premium Calibration	\$9,780	
MS2089A-0706-ES516	5 Year Extended Service - Return to Anritsu Repair and Premium Calibration	\$10,620	

## Competitive Summary

### Keysight FieldFox A/B

The Keysight FieldFox A/B series offers a diverse range of instruments, from simple 6 GHz cable and antenna analyzers to advanced combination units capable of reaching up to 54 GHz. These combination instruments include cable and antenna analyzers, 2-port vector network analyzers, and spectrum analyzers. Although Keysight's basic 6 GHz cable and antenna analyzer starts at a higher price point than dedicated cable and antenna analyzers, it targets professional markets, particularly aerospace and defense, rather than cellular network operators.

In its cable and antenna analyzer (CAA) configuration, the FieldFox A is primarily designed for aerospace and defense applications and faces several limitations for cellular network use compared to the MS2085A Site Master. Notably, FieldFox A features a small, low-resolution display which can hinder user experience during set up and result interpretation. Unlike the MS2085A, FieldFox does not support built-in report generation or offer an external PC application for report creation. This lack of reporting capability is a significant drawback for contractors involved in new cell site deployments, where close-out reports are crucial.

Furthermore, FieldFox A lacks built-in Wi-Fi, restricting connectivity options for transferring traces and remote control via PC. Although the RF specifications of the FieldFox A and MS2085A Site Master are comparable, and both support a Time Domain Reflectometry (TDR) option, the FieldFox B models provide marginally faster sweep times than the A models, yet still do not surpass the MS2085A. All models in the FieldFox series are rated IP53 for dust and water resistance.

<b>MS2085A/MS2089A Strength Over Keysight FieldFox A/B</b>	<b>Benefit to Customer</b>
Large 10-in Multitouch Display 1280 x 800 Resolution	Anritsu's large, high resolution screen provides a better user experience than FieldFox's 6.5 in low resolution display.
Faster Sweep Time than FieldFoxB	Save time on repetitive measurements. Field Fox throttles performance when hot
Built-in Report Generation	Technicians can generate close-out reports on-site using Site Master. Not available on FieldFox
5G Demod Option	Not available on FieldFox A
Built-in Wi-Fi as Standard	Wi-Fi not available on FieldFoxA, providing less flexibility for network connectivity
5 W Damage Level Standard	FieldFoxA's safe input is 0.5W (+27 dBm). There is a greater risk of accidental damage than the Site Master
5 Hours of Battery Life in CAA Mode (typical)	3.5 hours for the FieldFox

<b>FieldFox strength over MS2085A/MS2089A</b>	<b>Anritsu Response</b>
IP53 Rating in Standard Package	The main benefit of FieldFox is the IP53 rating. Highlight the soft case provides IP52 protection.
Physical Buttons	The physical button comes at the expense of screen size
50 GHz Frequency Variants	Most common networks and use-cases are below 6 GHz
3.5 Hours Battery Life in SPA Mode	The Site Master can operate for up to 6 hours with the accessory power pack.
3 kg Weight	0.8 kg is negligible for a larger screen and active cooling. Keep in mind the FieldFox throttle performance when hot.

### **Viavi JD72XC**

The Viavi JD723C/24C/25C/26C series represents the latest evolution of their JD723A cable and antenna analyzers, initially introduced in 2011. Viavi has shifted its marketing focus towards the OA800 series over the JD72XC models, signaling a strategic update in their product lineup.

Compared to the JD72XC series, the MS2085A offers several enhancements that improve overall usability and performance. These include a larger display and faster sweep and response times, which significantly enhance the user experience. Unlike the MS2085A, the JD72XC series lacks built-in geo-location services; it requires an external USB GNSS dongle to provide this functionality. Additionally, the JD72XC series is not compatible with Viavi's StrataSync cloud services, which facilitates device management and data integration in the cloud. However, Viavi does provide a PC application, JDViewer, for post-processing of traces.

A distinct advantage of the JD72XC series is its support for accessory fiber inspection probes (often referred to as Visual Inspection Probes or VIPs) and optical power meters. This feature is particularly valuable for field technicians who install both fiber optic data feeds and RF cables on the same infrastructure, enabling a more versatile toolset in the field. Despite these capabilities, the JD72XC series lacks factory calibration data, which can hinder immediate testing in stable environments. Moreover, it does not include a Time Domain Reflectometry (TDR) feature, which is crucial for detailed fault analysis in long cable runs. Additionally, the JD72XC series does not offer a spectrum analyzer variant or option, limiting its applicability in certain diagnostic scenarios.

<b>MS2085A/MS2089A Strength Over Viavi JD72XC</b>	<b>Benefit to Customer</b>
Integrated GNSS Option	JD72XC requires a USB GNSS dongle
Faster Sweep Time	More measurements in a shorter amount of time
Full-feature Spectrum Analyzer	Install, maintain, and verify with the same instrument.
TDR Option	This can be a useful tool for more advanced users who want to get as much information as they can before they repair a cable.
Built-in PDF Report	The ability to create close-out reports and edit cable lists without the need for a PC.
Powerful SPA	All the MS2080A features and now IQ capture and Streaming.

<b>Viavi JD72XC strength over MS2085A/MS2089A</b>	<b>Anritsu Response</b>
Optical Power Meter and VIP	Normally RF and Optical are two different teams. We plan to add Optical power meter and VIP to the unit by the end of FY 2024.
5-7 hours of Battery life	With the extended battery pack, we can match them. Highlight the battery pack allows them to hot swap the unit without needing to power down.
Remote Software	We have many tools built into the unit, so we do not need a remote tool. We also have certified training, and it is a requirement for most carriers.

### Summary

The new Site Master MS2085A and MS2089A models represent a significant advancement in the Site Master product line, which has been a cornerstone in the industry for over 30 years. These instruments combine trusted reliability, comprehensive support, and industry-leading performance, ensuring that customers receive unparalleled service and training. Known for their rugged design, intuitive user interface, and extensive measurement capabilities, the Site Master series equips field technicians and engineers with the tools needed to confidently tackle even the most challenging tasks.

Specifically, the MS2085A Cable and Antenna Analyzer (CAA) is ideally suited for the Installation and Maintenance (I&M) market segment, providing robust diagnostic and maintenance capabilities. On the other hand, the MS2089A combines the functionality of a CAA with a powerful Spectrum Analyzer (CAA+SPA), making it a versatile tool for a broader range of applications beyond just I&M. This includes serving as a node within a Remote Spectrum Monitoring (RSM) network, supporting installation projects, and facilitating efficient interference hunting. These features make the MS2089A an indispensable tool for a wide array of field applications.

Happy selling!

Raymond Chan

Product Manager