

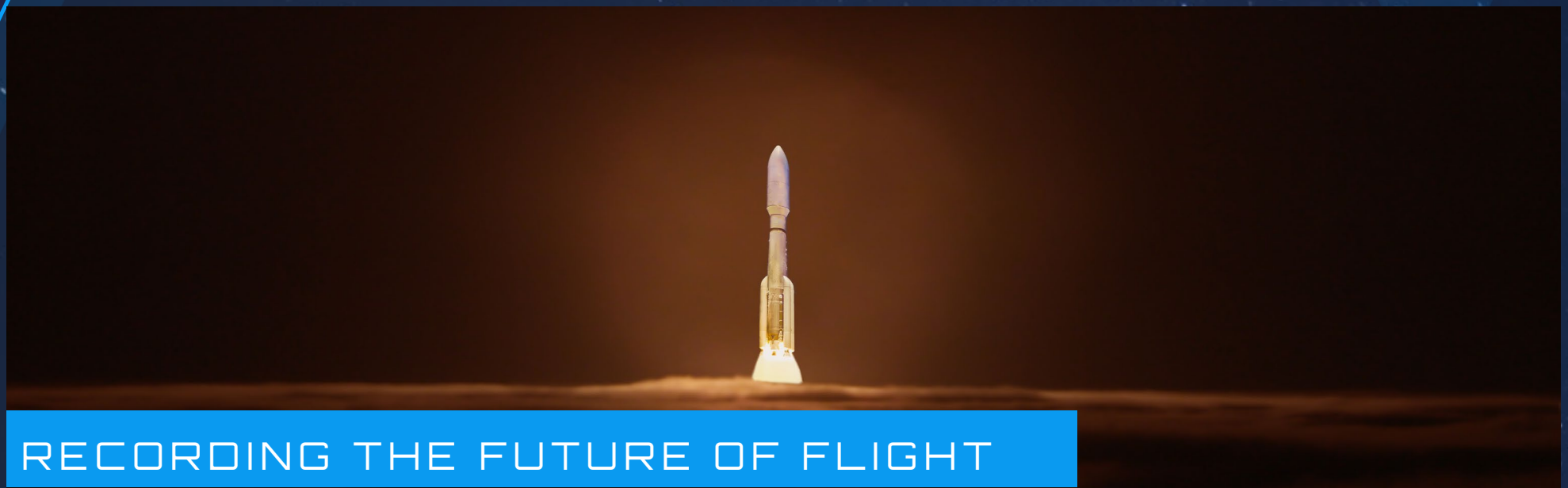
STATION

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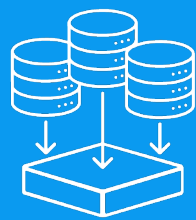
Wideband Systems, Inc.



TRAILBLAZING GROUND TELEMETRY RECORDING

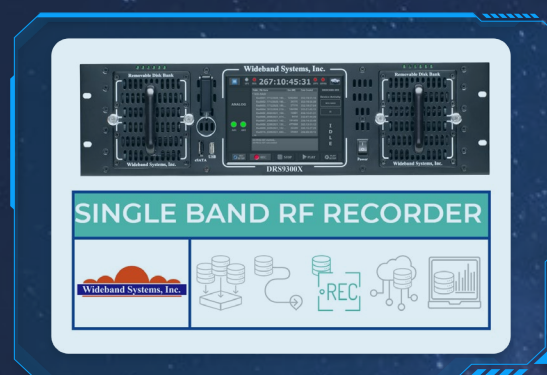


RECORDING THE FUTURE OF FLIGHT

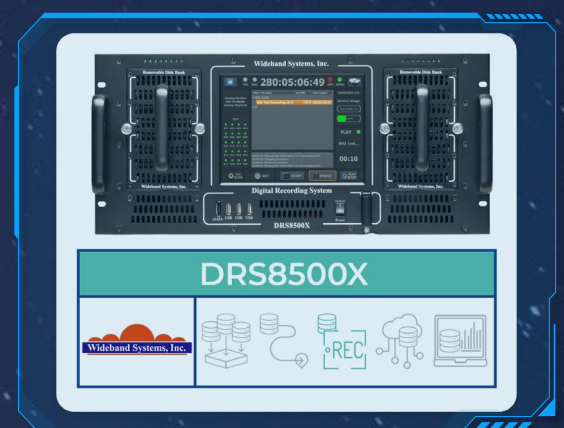


DATA RECORDING

RF RECORDER/REPRODUCER



SIGNAL RECORDER/REPRODUCER



RECORDER/REPRODUCER/TRANSPORT





RF RECORDING

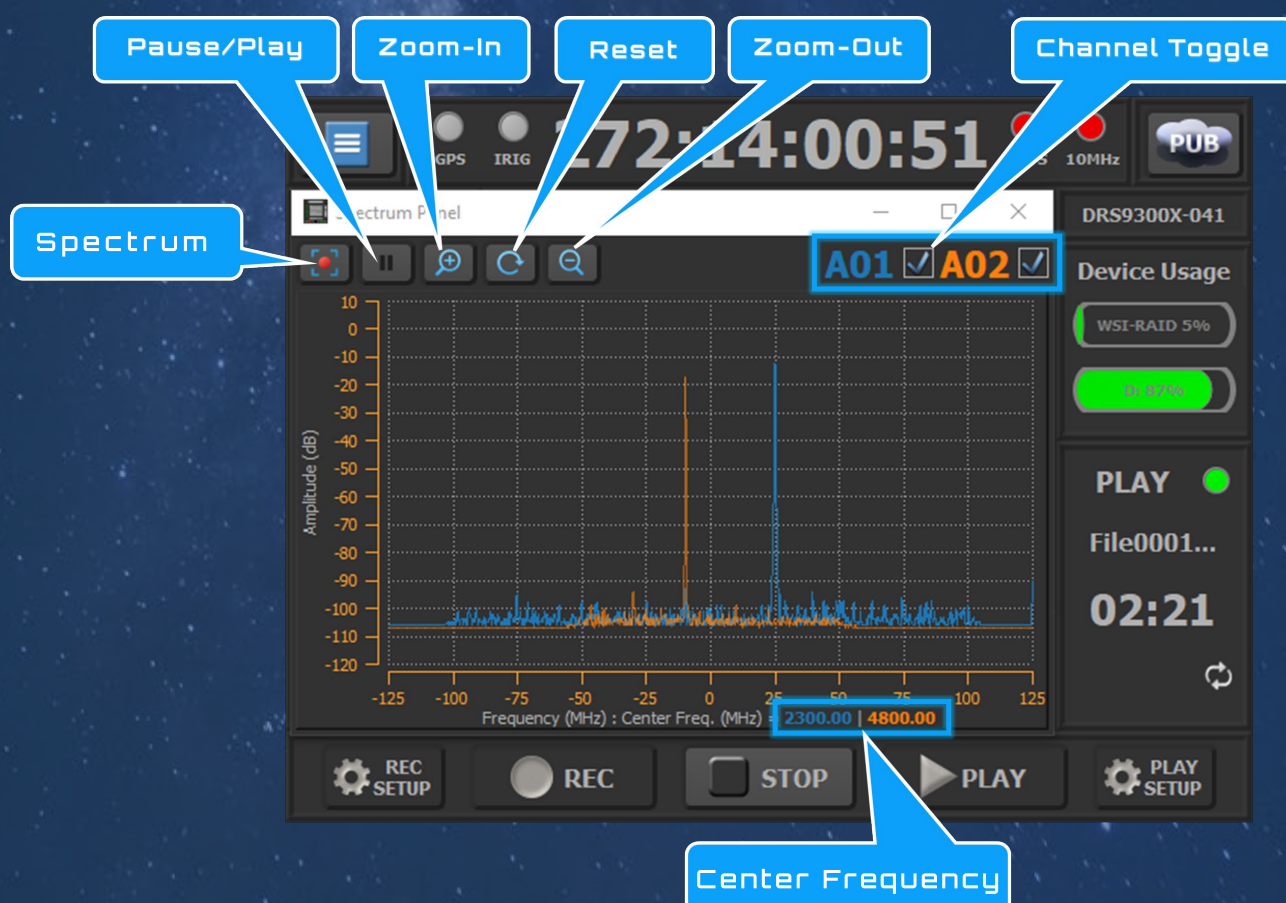
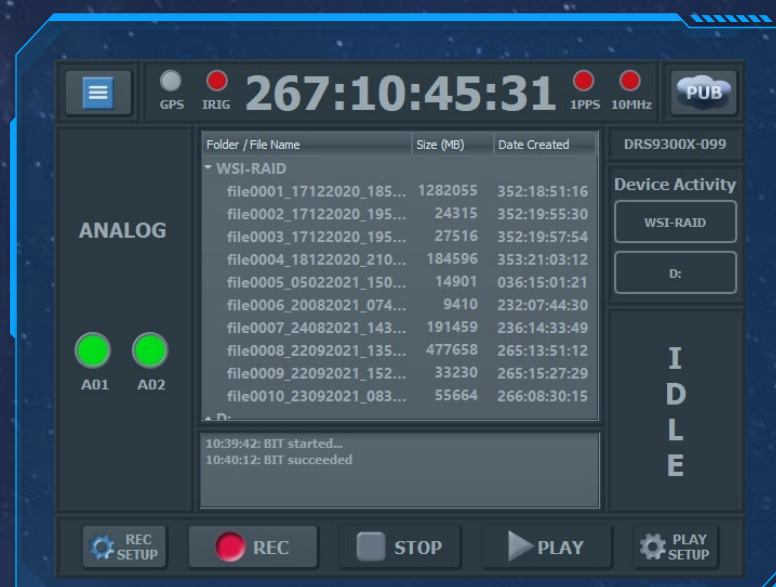
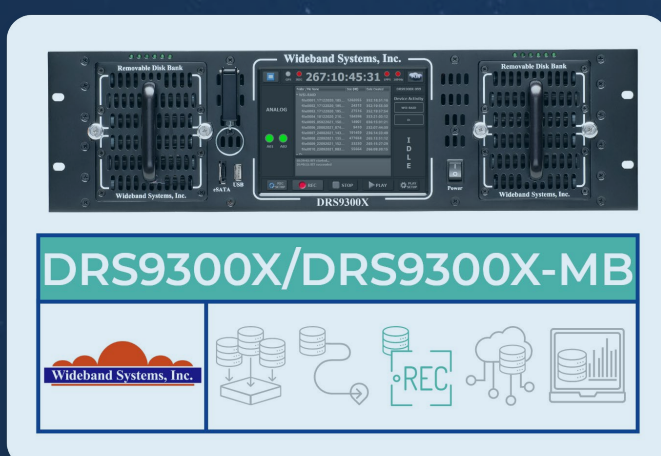
SIGNAL RECORDING

Multi-Band RF Recording.

With built-in spectrum analyzer

The **WSI DRS9300X RF Recorder** downconverts an incoming RF signal from the antenna to 375MHz for monitoring and recording. On playback, it upconverts the signal back to its original RF frequency. The **9300X** can be configured to record P, L, S, or C-Band frequencies (100MHz to 6GHz) either by purchasing a fixed-band interface (**DRS9300X**) or by purchasing a Multi-Band system (**DRS9300X-MB**) that can be dynamically tuned and each channel independently configured. The **DRS9300X/-MB** offers storage capacity options up to 24TB, and aggregate data rates of 9600+ Mbps.

When integrated with the **ACU-M4LR** and **Digital RF Receiver**, the system is capable of showing complete system oversight from signal control to data recording and monitoring.



Built to Secure the Signal & the Mission.





RF RECORDING

SIGNAL RECORDING

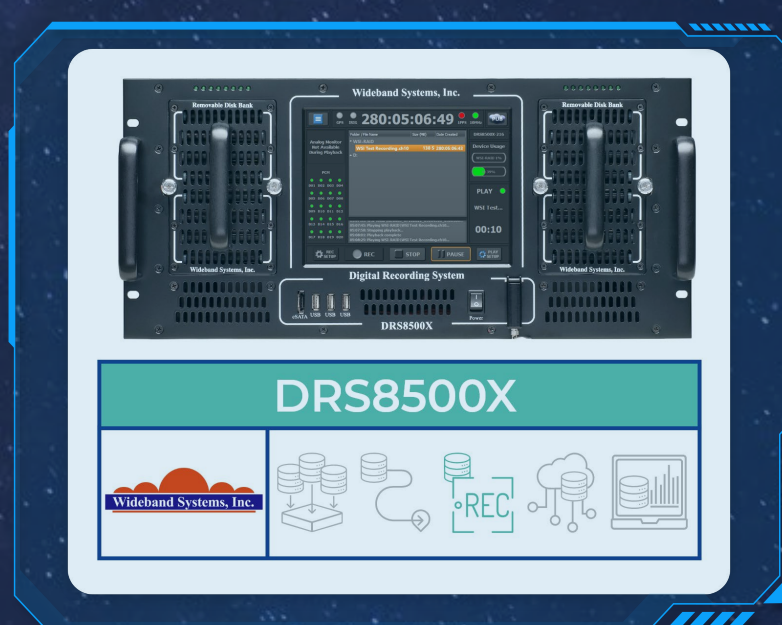
DRS8500X Signal Recorder.

Optimized for Next-Gen Range Operations

Experience the **DRS8500X** in action as it demonstrates high-capacity, real-time telemetry recording and playback. Watch how this flagship recorder plays back multiple data streams simultaneously, from analog to Ethernet to MIL-STD-1553, while maintaining compliance with IRIG-106 Chapter 10/11. The demo highlights its dual disk bank design, showing seamless switching between high-rate striped recording and mirrored redundancy modes.

Engineers can see how the **DRS8500X** scales up to support mission-critical workloads, capturing and safeguarding data in even the most demanding environments. This live scenario underscores why the **DRS8500X** sets the benchmark for next-generation range operations.

Built for today's test ranges, the **DRS8500X** delivers unmatched reliability, scalability, and performance—setting the benchmark for next-generation recording.



Setting the Benchmark for Recording.





TRAILBLAZING GROUND TELEMETRY RECORDING

Built for Mission Success.

Reliable Recording. Flexible Playback. Proven Results.

Engineered for mission-critical telemetry environments, Wideband Systems' recorders are purpose-built to capture RF, IF, digital and other analog signals with high fidelity and precision timing. Recorded data is stored in IRIG 106 Chapter 10/11 format and easily reproduced for analysis via signal reconstruction or TMoIP over Ethernet.

Flexible, modular, and field-proven, our systems meet the needs of airborne, ground, and space-based applications where performance and reliability are non-negotiable.



APPLICATIONS

Wideband Systems supports a wide range of ground-based telemetry applications, from flight and weapons testing to space launches and advanced research missions. Our recorders are engineered to capture high-fidelity RF, IF, digital and other analog signals with uncompromising accuracy, ensuring no data is lost, even in the most challenging mission profiles. With flexible configurations, removable storage, and modular interfaces, WSI systems adapt seamlessly to diverse platforms and evolving test requirements. Whether validating new aircraft, monitoring launch vehicles, or recording sensitive data for post-mission analysis, WSI delivers performance that programs can depend on.

Flight Test.

Flight test programs rely on accurate telemetry recording for system evaluation, safety monitoring, and mission analysis. Wideband Systems supports these efforts with high-performance ground recorders that capture telemetry in IRIG 106 formats. Rugged and modular designs ensure reliable operation at test ranges, with removable storage for fast turnaround and post-mission playback.

Mission

Mission across Wideband Systems' analog and digital data.





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Missile Test.

Missile testing demands precise, real-time telemetry capture across dynamic events like launch, flight, and impact. Wideband recorders ensure high-fidelity signal recording under stress, supporting ground-based tracking and playback analysis. With flexible interface options and modular configurations, WSI systems are trusted for their durability and data integrity in defense-critical applications.

Space

Space vehicle telemetry recording. Wideband recorders ensure high-fidelity signal recording under stress, supporting ground-based tracking and playback analysis. With flexible interface options and modular configurations, WSI systems are trusted for their durability and data integrity in defense-critical applications.





TRAILBLAZING GROUND TELEMETRY RECORDING

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Space.

Space missions require continuous telemetry collection for vehicle health, system tracking, and mission command. Wideband Systems delivers rugged ground recorders that support data intake from multiple channels, enabling comprehensive signal acquisition and long-duration recording. These systems are used at launch pads, mission control centers, and ground stations supporting LEO, GEO, and deep space platforms.

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TRAILBLAZING GROUND TELEMETRY RECORDING

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Rocket Launch.

Telemetry during rocket launches requires seamless capture of flight events across liftoff, staging, and atmospheric exit. Wideband recorders collect and store critical data for launch vehicle tracking, propulsion validation, and environmental response. Their field-proven systems operate across a range of bandwidths and signal types, ensuring secure, uninterrupted acquisition for post-launch evaluation.

Flight

Flight system Wideband recorders perform IRIG 106 for operational turnaround.

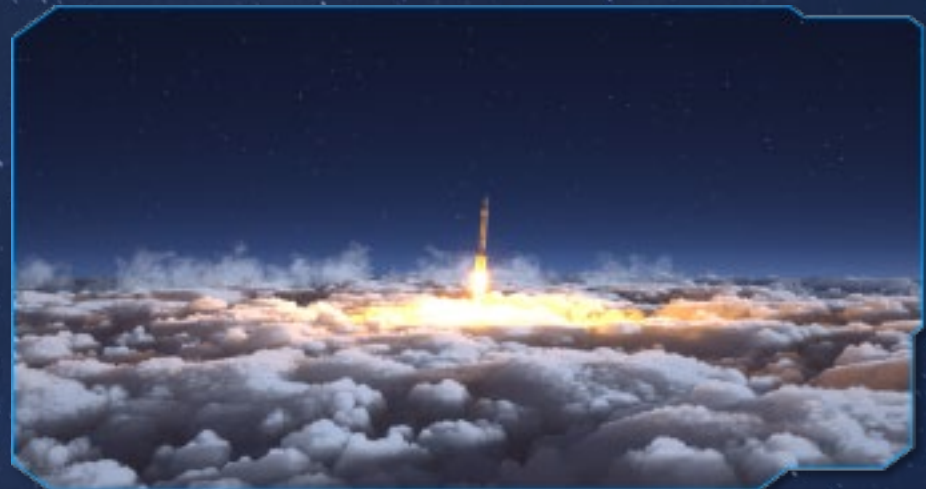




ENGINEERING THAT DELIVERS

Multi-Domain Data Capture.

Capture RF, IF, Digital and Analog signals across aerospace, defense, and intelligence applications; on the ground or in the field.

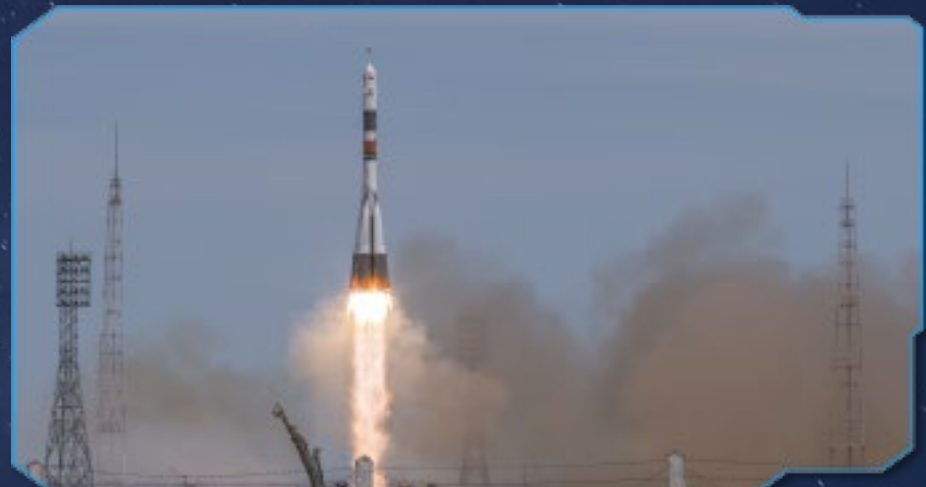


Accurate Data Reproduction.

Playback with precise timing for native signal reconstruction and in-depth analysis.

Proven Mission Reliability.

Trusted by global test ranges and critical programs for dependable performance in any environment for the past three decades.



3-Year Warranty & Superior Support.

Producing "Zero-Defect" products is our goal. We stand behind our products and warrant them to be free from material and workmanship defects for three (3) years from the date of shipment.

Outstanding value to our customers is our goal. We strive to produce high quality, highly reliable, cost-effective products, having excellent performance and functionality.





ENGINEERING THAT DELIVERS



Standards-Compliant Recording.

IRIG 106 Chapter 10/11 compliant for universal compatibility and streamlined data sharing.

Modular System Design.

Adapt to changing mission needs with swappable interface boards and configurable I/O.



ISO9001 Certified.

Our Quality Management System is certified to ISO 9001:2015. We bring this same level of quality to all our products.



STATION

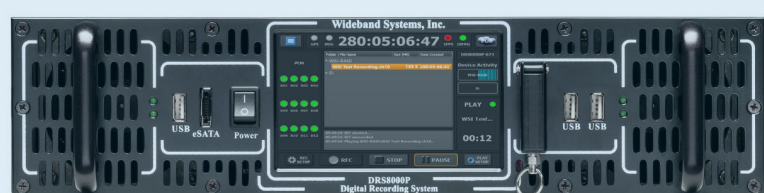
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Wideband Systems, Inc.



TRAILBLAZING GROUND TELEMETRY RECORDING

TOP PRODUCTS



DRS8000P



DRS8200X



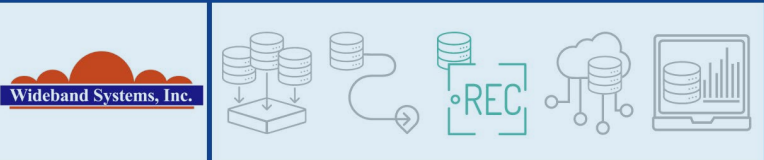
DRS8300X



DRS8500X



DRS9300X/DRS9300X-MB



ARC



INTERFACE BOARDS (IFBS)





DRS8000P.

Portable Telemetry Recorder

- High-speed, Multi-band Recording
- Flexible Storage & Config Options

[ACCESS DATASHEET](#)

The **DRS8000P** is a portable, high-performance telemetry recorder designed for mission flexibility and field-ready durability. It delivers the same trusted recording capabilities as full-size systems in a rugged, compact form factor optimized for mobile operations and space-constrained environments.

Ideal for ground telemetry missions, field testing, or on-the-go signal capture, the **DRS8000P** supports IRIG 106 Chapter 10/11 recording with removable RAID storage and modular interface options. It's a reliable choice for teams that need quick deployment without sacrificing data integrity.

Features

- ▶ 3200 Mbps Sustained Data Rate Record and Playback
- ▶ Native IRIG-106 Chapter 10 Recording Format
- ▶ Data Export and Data Monitoring while Recording
- ▶ Two Removable Diskbanks
 - ▶ Capacity up to 4TB per Bank Solid-State Disk Drives
- ▶ Flexible Recording Modes; Striped or Mirrored
- ▶ Accepts a Single Interface Board (IFB)
 - ▶ Field Installable and Upgradable



Dual Removable Disk Banks

The **DRS8000P-DISKBANK** delivers high-speed storage for the **DRS8000P**. Using SATA SSDs with a SAS interface, it provides the bandwidth required for demanding telemetry missions. Two disk banks per system allow mirrored mode for redundancy or striped mode for throughput. Compact and field-installable, they ensure reliable recording without loss of portability.





Portable Telemetry Recorder

MODEL DRS8000P



KEY FEATURES

3200 Mbps Sustained Data Rate
Record and Playback

Native IRIG-106 Chapter 10
Recording Format

Data Export and Data
Monitoring while Recording

Two Removable Diskbanks
Capacity up to 4TB per Bank
Solid-State Disk Drives

Flexible Recording Modes
Striped or Mirrored

Accepts a Single Interface Board
(IFB)
Field Installable and Upgradable

Timing Interfaces
Accepts IRIG-A/B/C, NASA36
External 1PPS and 10MHz Reference
Optional GPS Timing

GENERAL DESCRIPTION

The DRS8000P is the ultra-compact member of Wideband Systems' industry-leading Digital Recording System (DRS) family. Designed specifically for the telemetry market, the DRS8000P delivers exceptional bandwidth, scalability, and performance while maintaining full compliance with the IRIG-106 Chapter 10 standard.

This portable system supports one user-installable Interface Board (IFB), providing flexibility across a broad range of telemetry applications. Its dual-disk bank architecture enables user-selectable recording modes including striped for high data rate and mirrored for redundancy.

With a storage capacity of 2 to 8 TB and an aggregate data rate of 3200 Mbps, the DRS8000P is uniquely qualified for high-demand telemetry environments. It excels in pre-detect analog, post-detect PCM, and direct IF signal acquisition, along with video, Ethernet, serial, and MIL-STD-1553 recording.

Built on Wideband Systems' legacy of rugged, field-proven performance, the DRS8000P sets a new standard for compact, portable digital recording solutions.



RELATED PRODUCTS

Antenna	Best Source Selector	Receiver	Telemetry Data Processor

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delta-telemetry.com | sales@wideband-sys.com

DELTA INFORMATION SYSTEMS COMPANY





DATA RECORDING



Portable Telemetry Recorder MODEL DRS8000P

TECHNICAL SPECIFICATIONS

Dimensions:	3.5 x 14.5 x 12.5 inches
Weight:	15 pounds (6.8 kg)
Temperature:	Operational: 5 to 50 degrees Celsius Non-Operational: -25 to 65 degrees Celsius
Humidity:	5% to 95%, non-condensing
Power (VAC):	90-132 and 180-264 VAC, DC power optional
Power (Hz):	47 to 63 Hz
Power (Watts):	<200 Watts
Record Media:	Two Removable Diskbanks
Disks/Diskbank:	Two 2.5" Disks
Disk Type:	Solid-State Disk
Disk Interface:	SATA
Data Security:	FIPS-140, AES-256
Diskbank Capacity:	1TB (optional to 4TB)
Operator Control:	Local Control via Front Panel 5.0" Touch Screen and/or auxiliary KVM Remote Control via Network attached PC
Data Transfer:	Data Transfer (Import/Export) to local USB and eSATA drives and Network attached devices



INTERFACE OPTIONS

STANDARD INTERFACE BOARDS

4A4D	4 Analog (up to 80MSPS) 4 Digital PCM (up to 52 Mbps)
12D	12 Digital PCM (up to 40Mbps)
2CHA1	2 High-Speed Analog (200MSPS)
4E4S	4 Ethernet (10/100/1000-Base-T) 4 RS-232 UARTs (up to 1MBaud)
8E	8 Ethernet (10/100/1000-Base-T)
2V	2 SD/HD Video
2IFxx	2 IFs (70, 140, or 370 MHz Center Frequency)
16M1553	16 MIL-STD-1553

GENERAL ANALOG INTERFACE BOARDS

Multi-channel, 8-16 bit A-to-D and D-to-A at 50K to 200 MS/PS

CUSTOM INTERFACES

Custom interface boards developed to meet specific telemetry needs
8F1394, 64DISCRETE, 8S, 8BCCDL, 4DBS, 32AR429, AND MORE!



*All system boards now come standard with a DisplayPort and dual USB 3.0 ports. VGA is no longer offered as a standard video output.

Recognizing that no standard product fits every mission, Delta Telemetry Systems is ready to deliver tailored solutions for your unique application requirements.
Specifications subject to change without notice.

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delta-telemetry.com | sales@wideband-sys.com

DELTA INFORMATION SYSTEMS COMPANY
WSI-DS-100-Rev3





DRS8200X. Telemetry Recorder

- On-the-go Signal Capture
- High-speed, Multi-mode Recording

[ACCESS DATASHEET](#)

The **DRS8200X** is a wideband telemetry recorder built for demanding ground station missions. With sustained data rates of 3200+ Mbps, it delivers exceptional fidelity while maintaining IRIG-106 Chapter 10/11 compliance. Optimized for secure, high-capacity environments, it ensures mission-critical data is captured with reliability and performance.

Its modular architecture with hot-swappable disk banks allows mirrored or striped modes to balance redundancy and throughput. Rugged, scalable, and mission-ready, the **DRS8200X** sets the standard for next-generation wideband data recording.

Features

- ▶ 3200+ Mbps Sustained Data Rate Record and Playback
- ▶ Native IRIG-106 Chapter 10 Recording Format
- ▶ Data Export and Data Monitoring while Recording
- ▶ Two Removable Diskbanks
 - ▶ Capacity up to 8TB per Bank Solid-State or HDD
- ▶ Flexible Recording Modes; Striped or Mirrored
- ▶ Accepts a Single Interface Board (IFB)
 - ▶ Field Installable and Upgradable



Dual Removable Disk Banks

The **DRS8200X-DISKBANK** is the high-speed storage backbone for the **DRS8200X**. Configured with SAS or SATA SSDs, each rugged aluminum housing connects via SAS for maximum throughput. Two disk banks per system allow mirrored mode for redundancy or striped mode for performance. Hot-pluggable and field-installable, they deliver secure, scalable recording for mission-critical operations.





Wideband Telemetry Recorder MODEL DRS8200X



KEY FEATURES

- 3200 Mbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Data Export and Data Monitoring while Recording
- Two Removable Diskbanks Capacity up to 8TB per Bank Solid-State or HDD
- Flexible Recording Modes Striped or Mirrored
- Accepts a Single Interface Board (IFB) Field Installable and Upgradable
- Timing Interfaces Accepts IRIG-A/B/G, NASA36 External 1PPS and 10MHz Reference Optional GPS Timing

GENERAL DESCRIPTION

The DRS8200X is the compact member of Wideband Systems' industry-leading Digital Recording System (DRS) family. Optimized for the telemetry market, the DRS8200X delivers exceptional bandwidth, scalability, and performance while maintaining full compliance with the IRIG-106 Chapter 10 standard.

This system supports one user-installable Interface Board (IFB), providing flexible integration across a wide range of telemetry applications. Its dual-disk bank architecture enables user-selectable recording modes including striped for high data rate and mirrored for redundancy.

With storage options from 4 to 16TB and an aggregate data rate of 3200 Mbps, the DRS8200X is built for high-demand telemetry missions. It supports pre-detect analog, post-detect PCM, and direct IF signal acquisition, along with video, Ethernet, serial, and MIL-STD-1553 recording.

Backed by Wideband Systems' legacy of rugged, field-proven performance, the DRS8200X delivers compact power and reliable digital recording in mission-critical environments.



RELATED PRODUCTS

Antenna	Best Source Selector	Receiver	Telemetry Data Processor

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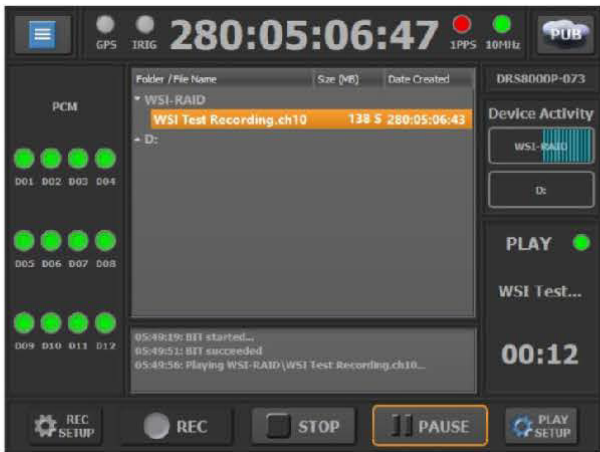




Wideband Telemetry Recorder
MODEL DRS8200X

TECHNICAL SPECIFICATIONS

Dimensions:	3.50 x 19 x 23.5 inches
Weight:	30 pounds (13.6 kg)
Temperature:	Operational: 5 to 50 degrees Celsius Non-Operational: -25 to 65 degrees Celsius
Humidity:	5% to 95%, non-condensing
Power (VAC):	90-132 and 180-264 VAC, DC power optional
Power (Hz):	47 to 63 Hz
Power (Watts):	<300 Watts
Record Media:	Two Removable Diskbanks
Disks/Diskbank:	Four 2.5" Disks
Disk Type:	Hard Disk or Solid-State Disk
Disk Interface:	SAS or SATA
Data Security:	FIPS-140, AES-256
Diskbank Capacity:	2TB (optional to 8TB)
Operator Control:	Local Control via Front Panel 5.0" Touch Screen and/or auxiliary KVM Remote Control via Network attached PC
Data Transfer:	Data Transfer (Import/Export) to local USB and eSATA drives and Network attached devices



ZINTERFACE OPTIONS

STANDARD INTERFACE BOARDS

4A4D	4 Analog (up to 80MSPS)
	4 Digital PCM (up to 52 Mbps)
12D	12 Digital PCM (up to 40Mbps)
2CHA1	2 High-Speed Analog (200MSPS)
4E4S	4 Ethernet (10/100/1000-Base-T)
	4 RS-232 UARTs (up to 1MBaud)
8E	8 Ethernet (10/100/1000-Base-T)
2V	2 SD/HD Video
2IFxx	2 IFs (70, 140, or 370 MHz Center Frequency)
16M1553	16 MIL-STD-1553

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WSI-DS-102-Rev3





DRS8300X. Telemetry Recorder

- Ultra-high-speed Data Capture
- Next-gen Scalable Recording

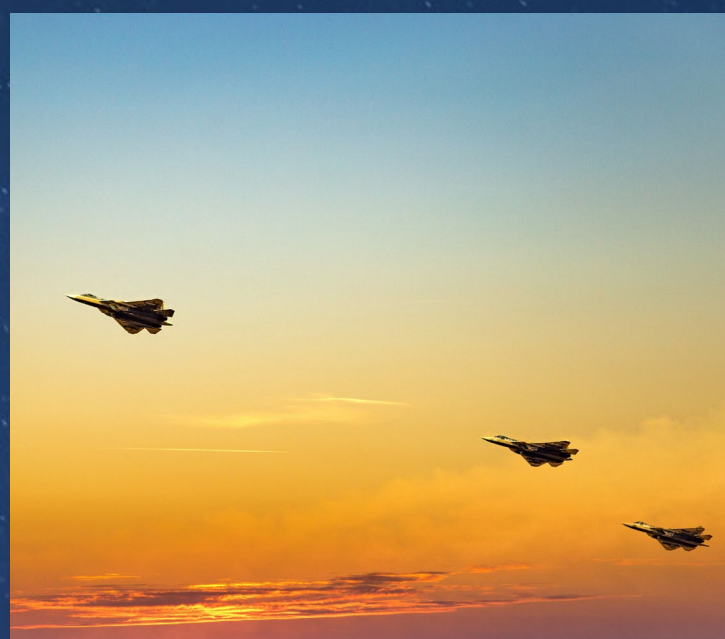
[ACCESS DATASHEET](#)

The **DRS8300X** is a wideband telemetry recorder engineered for the most demanding ground station missions. Supporting sustained data rates of 4800 Mbps, it delivers precise, reliable recording while maintaining full IRIG-106 Chapter 10/11 compliance. Optimized for secure, high-capacity performance, the system ensures mission-critical data is safeguarded without compromise.

Its modular, hot-swappable disk bank architecture offers both striped and mirrored modes to balance throughput and redundancy. Rugged, scalable, and mission-ready, the **DRS8300X** sets the benchmark for next-generation wideband telemetry recording.

Features

- 4800 Mbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Data Export and Data Monitoring while Recording
- Two Removable Diskbanks
 - Capacity up to 12TB per Bank Solid-State or HDD
- Flexible Recording Modes; Striped, Mirrored, or Sequential
- Accepts a Single Interface Board (IFB)
 - Field Installable and Upgradable



Dual Removable Disk Banks

The **DRS8300X-DISKBANK** delivers the high-speed storage backbone for the **DRS8300X**. Each rugged aluminum housing connects via SAS and supports SAS or SATA SSDs. With two disk banks per system, users can configure mirrored volumes for redundancy or striped volumes for maximum throughput. Hot-pluggable and scalable, the disk banks ensure dependable recording in mission-critical applications.





Wideband Telemetry Recorder
MODEL DRS8300X



KEY FEATURES

- 4800 Mbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Data Export and Data Monitoring while Recording
- Two Removable Diskbanks Capacity up to 12TB per Bank Solid-State or HDD
- Flexible Recording Modes Striped, Mirrored, or Sequential
- Accepts up to three Interface Boards (IFB) Field Installable and Upgradable
- Timing Interfaces Accepts IRIG-A/B/G, NASA36 External 1PPS and 10MHz Reference Optional GPS Timing

GENERAL DESCRIPTION

The DRS8300X is the workhorse member of Wideband Systems' industry-leading Digital Recording System (DRS) family. Optimized for the telemetry market, the DRS8300X delivers exceptional bandwidth, scalability, and performance while maintaining full compliance with the IRIG-106 Chapter 10 standard.

Designed as a direct replacement for legacy products, the DRS8300X modernizes ground station infrastructure while preserving compatibility and reliability. This system supports up to three user-installable Interface Boards (IFBs), providing flexible integration across a wide range of telemetry applications. Its dual-disk bank architecture enables user-selectable recording modes including striped for high data rate, mirrored for redundancy, and sequential for extended recording duration.

With storage options from 6 to 24TB and an aggregate data rate of 4800 Mbps, the DRS8300X is uniquely qualified for high-demand telemetry missions. It supports pre-detect analog, post-detect PCM, and direct IF signal acquisition, along with video, Ethernet, serial, and MIL-STD-1553 recording.

Backed by Wideband Systems' legacy of rugged, field-proven performance, the DRS8300X delivers scalable power and reliable digital recording for modern telemetry environments.



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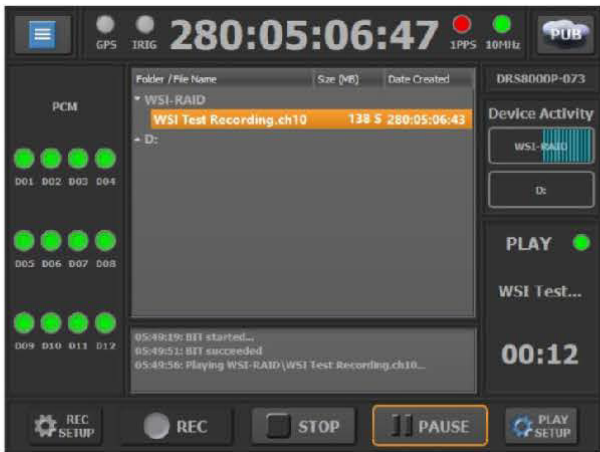


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Wideband Telemetry Recorder
MODEL DRS8300X

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Power (Hz):	47 to 63 Hz
Power (Watts):	<350 Watts
Record Media:	Two Removable Diskbanks
Disks/Diskbank:	Six 2.5" Disks
Disk Type:	Hard Disk or Solid-State Disk
Disk Interface:	SAS or SATA
Data Security:	FIPS-140, AES-256
Diskbank Capacity:	3TB (optional to 12TB)
Operator Control:	Local Control via Front Panel 6.6" Touch Screen and/or auxiliary KVM Remote Control via Network attached PC
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INTERFACE OPTIONS

STANDARD INTERFACE BOARDS

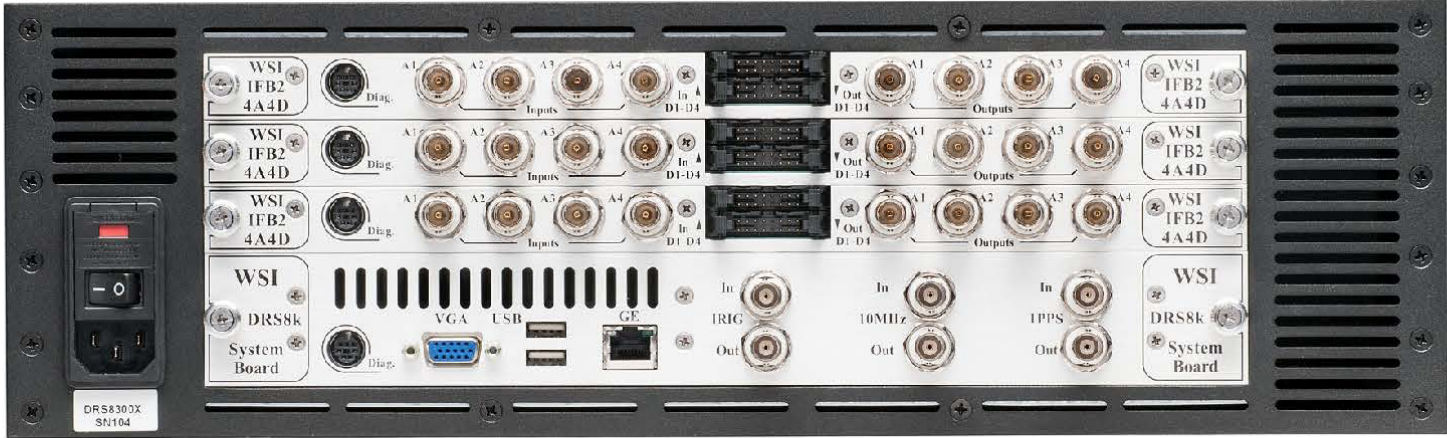
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2CHA1	2 High-Speed Analog (200MSPS)
4E4S	4 Ethernet (10/100/1000-Base-T)
	4 RS-232 UARTs (up to 1MBaud)
8E	8 Ethernet (10/100/1000-Base-T)
2V	2 SD/HD Video
2IFxx	2 IFs (70, 140, or 370 MHz Center Frequency)
16MI553	16 MIL-STD-1553

GENERAL ANALOG INTERFACE BOARDS

Multi-channel, 8-16 bit A-to-D and D-to-A at 50K to 200 MSPS

CUSTOM INTERFACES

Custom interface boards developed to meet specific telemetry needs
8F1394, 64DISCRETE, 8S, 8BCCDL, 4DBS, 32AR429, AND MORE!



*All system boards now come standard with a DisplayPort and dual USB 3.0 ports. VGA is no longer offered as a standard video output.

Recognizing that no standard product fits every mission, Delta Telemetry Systems is ready to deliver tailored solutions for your unique application requirements.
Specifications subject to change without notice.

11900 Bournefield Way – Suite 120 Silver Spring, MD 20904 | 301.588.8840
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A DELTA INFORMATION SYSTEMS COMPANY
WSI-DS-104-Rev3





DRS8500X. Telemetry Recorder

- 4800+ Mbps Sustained Throughput
- Next-gen Scalable Recording

[ACCESS DATASHEET](#)

The **DRS8500X** is Wideband Systems' most advanced wideband telemetry recorder, purpose-built for mission-critical ground stations and demanding test ranges. Supporting data rates of 4800+ Mbps, it ensures unmatched fidelity while maintaining full IRIG-106 Chapter 10/11 compliance. Designed for rugged performance, it safeguards telemetry data with precision and reliability across diverse mission needs.

With a scalable dual-disk bank design, the **DRS8500X** delivers flexible recording options, from mirrored redundancy to striped throughput for maximum performance. Tested in next-generation telemetry environments, it sets the benchmark for ultra-high-capacity recording where no compromise is acceptable.

Features

- 4800+ Mbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Data Export and Data Monitoring while Recording
- Two Removable Diskbanks
 - Capacity up to 16TB per Bank Solid-State or HDD
- Flexible Recording Modes; Striped, Mirrored, or Sequential
- Accepts a Single Interface Board (IFB)
 - Field Installable and Upgradable



Dual Removable Disk Banks

The **DRS8500X-DISKBANK** provides the high-speed storage backbone for the **DRS8500X**. Configured with SAS or SATA SSDs and connected via SAS, it delivers the bandwidth needed for your mission. With two banks per system, users can select mirrored mode for redundancy or striped mode for throughput. Rugged and hot-pluggable, dependable operation in the harshest environments.





Wideband Telemetry Recorder MODEL DRS8500X



KEY FEATURES

- 4800+ Mbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Data Export and Data Monitoring while Recording
- Two Removable Diskbanks Capacity up to 16TB per Bank Solid-State or HDD
- Flexible Recording Modes Striped, Mirrored, or Sequential
- Accepts up to seven Interface Boards (IFB) Field Installable and Upgradable
- Timing Interfaces Accepts IRIG-A/B/G, NASA36 External 1PPS and 10MHz Reference Optional GPS Timing

GENERAL DESCRIPTION

The DRS8500X is the flagship member of Wideband Systems' industry-leading Digital Recording System (DRS) family. Optimized for the telemetry market, the DRS8500X delivers exceptional bandwidth, scalability, and performance while maintaining full compliance with the IRIG-106 Chapter 10 standard.

Designed as a direct replacement for legacy products, the DRS8500X modernizes ground station infrastructure while preserving compatibility and reliability. This system supports up to seven user-installable and upgradeable Interface Boards (IFBs), providing flexible integration across a wide range of telemetry applications. Its dual-disk bank architecture enables user-selectable recording modes including striped for high data rate, mirrored for redundancy, and sequential for extended recording duration.

With storage options from 8 to 32TB and an aggregate data rate of 4800+ Mbps, the DRS8500X is uniquely qualified for the most demanding telemetry environments. It supports pre-detect analog, post-detect PCM, direct IF signal acquisition, and high-speed recording of video, Ethernet, serial, and MIL-STD-1553 data streams.

Backed by Wideband Systems' legacy of rugged, field-proven performance, the DRS8500X sets a new benchmark for high-capacity, high-performance digital recording in mission-critical applications.



RELATED PRODUCTS

Antenna	Best Source Selector	Receiver	Telemetry Data Processor

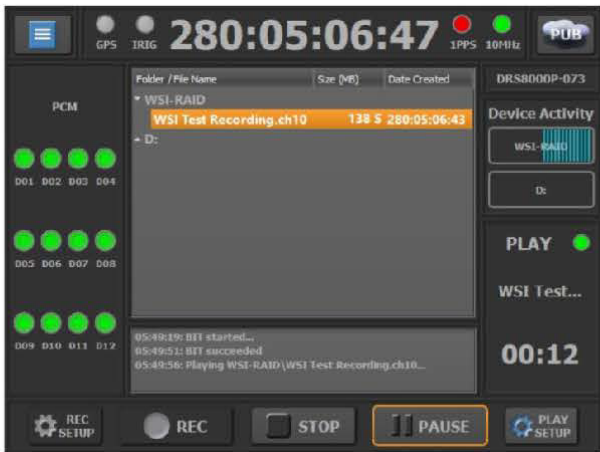




Wideband Telemetry Recorder
MODEL DRS8500X

TECHNICAL SPECIFICATIONS

Dimensions: 8.75 x 19 x 23 inches
Weight: 55 pounds (24.9 kg)
Temperature: Operational: 5 to 50 degrees Celsius
Non-Operational: -25 to 65 degrees Celsius
Humidity: 5% to 95%, non-condensing
Power (VAC): 90-132 and 180-264 VAC, DC power optional
Power (Hz): 47 to 63 Hz
Power (Watts): <450 Watts
Record Media: Two Removable Diskbanks
Disks/Diskbank: Eight 2.5" Disks
Disk Type: Hard Disk or Solid-State Disk
Disk Interface: SAS or SATA
Data Security: FIPS-140, AES-256
Diskbank Capacity: 4TB (optional to 16TB)
Operator Control: Local Control via Front Panel 8.4" Touch Screen and/or auxiliary KVM Remote Control via Network attached PC
Data Transfer: Data Transfer (Import/Export) to local USB and eSATA drives and Network attached devices



INTERFACE OPTIONS

- STANDARD INTERFACE BOARDS**
- 4A4D 4 Analog (up to 80MSPS)
4 Digital PCM (up to 52 Mbps)
 - 12D 12 Digital PCM (up to 40Mbps)
 - 2CHA1 2 High-Speed Analog (200MSPS)
 - 4E4S 4 Ethernet (10/100/1000-Base-T)
4 RS-232 UARTs (up to 1MBaud)
 - 8E 8 Ethernet (10/100/1000-Base-T)
 - 2V 2 SD/HD Video
 - 2IFxx 2 IFs (70, 140, or 370 MHz Center Frequency)
 - 16M1553 16 MIL-STD-1553

- GENERAL ANALOG INTERFACE BOARDS**
Multi-channel, 8-16 bit A-to-D and D-to-A at 50K to 200 MSPS
- CUSTOM INTERFACES**
Custom interface boards developed to meet specific telemetry needs
8F1394, 64DISCRETE, 8S, 8BCCDL, 4DBS, 32AR429, AND MORE!



*All system boards now come standard with a DisplayPort and dual USB 3.0 ports. VGA is no longer offered as a standard video output.

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DRS9300X/X-MB.

Single/Multi-Band RF Recorder

- RF/IF Module
- Multi-band Capability (P, L, S & C Bands)

[ACCESS DATASHEET](#)

The **DRS9300X / DRS9300X-MB** is a high-performance RF recorder built for advanced signal intelligence and telemetry missions. Supporting up to 10 Gbps sustained data rates with 16-bit A/D and D/A conversion, it captures wideband signals with precision while meeting IRIG-106 Chapter 10 standards. Rugged and mission-ready, it delivers fidelity and flexibility in demanding environments.

With modular RF/IF interface modules, the **DRS9300X** enables multiband recording over P, L, S, and C Bands. Dual removable disk banks provide mirrored or striped modes for reliability or throughput. Scalable and optimized for modern RF requirements, it balances capacity, performance, and signal integrity.

Features

- ▶ 10 Gbps Sustained Data Rate Record and Playback
- ▶ Native IRIG-106 Chapter 10 Recording Format
- ▶ Frequency range: 100MHz to 6GHz
- ▶ RF Spectrum Monitor while Recording
- ▶ Two Removable Diskbanks: Total Capacity 6TB - 24TB
 - ▶ FIPS-140, AES-256 Hard Disk or Solid-State Disk
- ▶ 16-bit A/D and D/A converters
- ▶ Variable bandwidths (50/100/200/220MHz)



Dual Removable Disk Banks

The **DRS9300X-DISK BANK** delivers the high-speed storage backbone for the **9300X**. Each rugged aluminum housing connects via SAS and supports SAS or SATA SSDs. With two disk banks per system, users can configure mirrored volumes for redundancy or striped volumes for maximum throughput. Hot-pluggable and scalable, the disk banks ensure dependable recording in mission-critical applications.





Single, Multi Band RF Recorder

MODEL DRS9300X, DRS9300X-MB



KEY FEATURES

- 10 Gbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Frequency range: 100MHz to 6GHz
- RF Spectrum Monitor while Recording
- Two Removable Diskbanks
Total Capacity 6TB - 24TB
FIPS-140, AES-256 Hard Disk or Solid-State Disk
- 16-bit A/D and D/A converters
- 80+ dB of Automatic Gain Control
- Timing Interfaces
Accepts IRIG-A/B/G, NASA36
External 1PPS and 10MHz Reference
Optional GPS Timing

GENERAL DESCRIPTION

The DRS9300X/DRS9300X-MB is a high-performance member of Wideband Systems' industry-leading Digital Recording System (DRS) family. Optimized for the RF recording market, the DRS9300X/DRS9300X-MB delivers exceptional bandwidth and signal fidelity while maintaining full compliance with the IRIG-106 Chapter 10 standard.

This system supports an integrated RF/IF Interface Module, providing flexible support across a wide range of RF recording applications. It employs 16-bit A/D and D/A converters and includes over 80 dB of Automatic Gain Control. The reconstructed RF output can be configured to follow the input signal or maintain a fixed output level, depending on mission requirements.

With configurations offering storage from 6 to 24TB and a data rate of 10Gbps, the DRS9300X/DRS9300X-MB is uniquely qualified for the most demanding RF recording requirements. It supports coverage across the P Band, L Band, S Band, and C Band spectrums, delivering a tailored solution for advanced signal intelligence and analysis.

Backed by Wideband Systems' legacy of rugged, field-proven performance, the DRS9300X/DRS9300X-MB delivers unmatched capability in high-speed, high-resolution RF data acquisition and playback.



RELATED PRODUCTS

Antenna	Best Source Selector	Receiver	Telemetry Data Processor





Single, Multi Band RF Recorder

MODEL DRS9300X, DRS9300X-MB

TECHNICAL SPECIFICATIONS

Dimensions:	5.25 x 19 x 23.5 inches
Weight:	40 pounds (18.1 kg)
Temperature:	Operational: 5 to 50 degrees Celsius Non-Operational: -25 to 65 degrees Celsius
Humidity:	5% to 95%, non-condensing
Power (VAC):	90-132 and 180-264 VAC, DC power optional
Power (Hz):	47 to 63 Hz
Power (Watts):	<350 Watts
Record Media:	Two Removable Diskbanks
Disks/Diskbank:	Six 2.5" Disks
Disk Type:	Hard Disk or Solid-State Disk
Disk Interface:	SAS or SATA
Data Security:	FIPS-140, AES-256
RAID Capacity:	12TB to 24TB
Operator Control:	Local Control via Front Panel 6.5" Touch Screen and/or auxiliary KVM Remote Control via Network attached PC
Data Transfer:	Data Transfer (Import/Export) to local USB and eSATA drives and Network attached devices



RF OPTIONS

- 2ARF-SB (single band) or 2ARF-MB (multi-band)
Two independently configurable I/O channels (selectable bandwidth: 50MHz, 100MHz, or 200MHz)
Center frequency: Tunable within and outside of each available band, **input and output are independently configurable.**
C-Band (4400-5250 MHz)
S-Band (2200-2400 MHz)
L-Band (Lower) (1427-1545 MHz)
L-Band (Upper) (1675-1850 MHz)
P-Band (100-1320 MHz)



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WSI-DS-108-Rev3





NEW PRODUCT!

ARC.

Aggregated Receiver/Recorder Control Command Suite

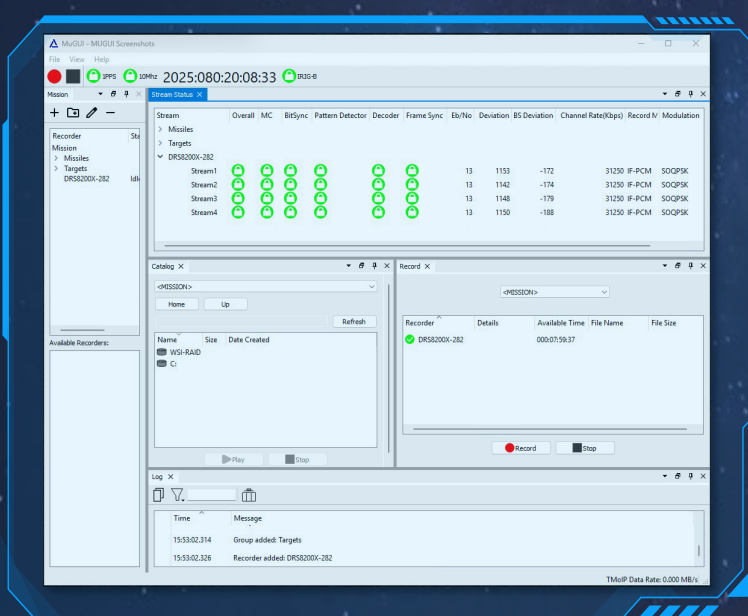
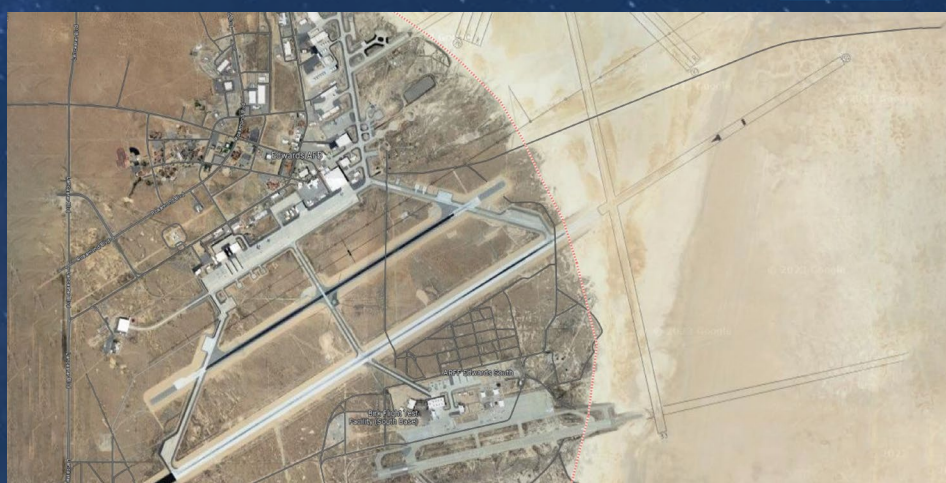
- Centralized Multi-channel Control
- Scalable, Mission-ready Interface

The ARC Command Suite (Aggregated Receiver/Recorder Control) is a powerful, intuitive software platform engineered for mission-critical telemetry. Designed to simplify the operation of DRS8200X-4IF70R recorders, it provides operators with real-time control across up to four independent IF input channels per recorder/receiver, ensuring reliable, high-fidelity IF data capture.

More than a control interface, ARC enables scalable management of multiple recorders across a range or mission set, delivering a centralized solution for airborne, ground, and sea-based platforms. Its user-friendly design reduces operator workload while safeguarding mission-critical data integrity.

Features

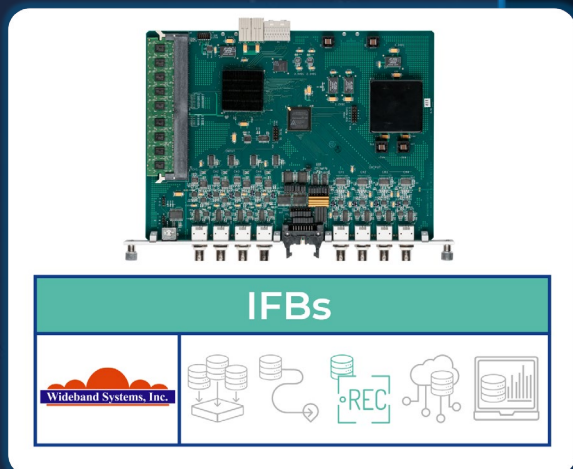
- ▶ Aggregated Multi-Channel Control
- ▶ Modern, Mission-Friendly GUI
- ▶ Real-Time Performance Monitoring
- ▶ Flexible Receiver/Recorder Management
- ▶ Scalable Architecture



Integrated Software Dashboard

ARC replaces hardware add-ons with a software-driven interface. Its modern dashboard consolidates system health, performance data, and control functions into one streamlined environment. Operators can configure, monitor, and adjust multiple recorders simultaneously, reducing complexity and improving efficiency in high-stakes missions.



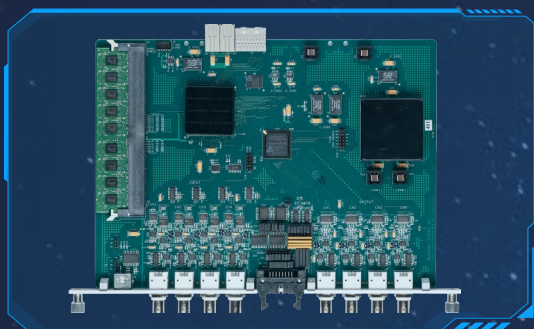


IFBs. Interface Boards

- Flexible, Mission-ready Options
- Customizable Solutions

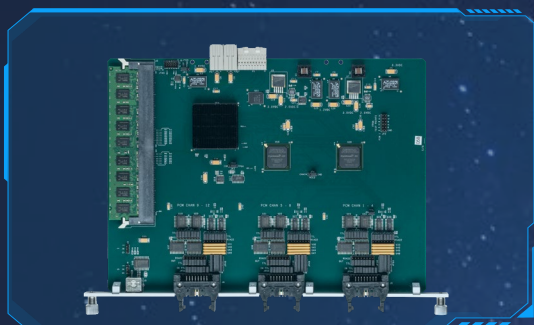


Wideband Systems' IFBs deliver flexible, high-performance I/O for mission-critical telemetry. From core boards like the 4A4D, 12D, 2IF, 8E, and 2V-HD60 to tailored designs, WSI ensures every system has the right interface solution. Our scalable modules enable reliable connectivity, precise data capture, and seamless integration with evolving ground telemetry requirements.



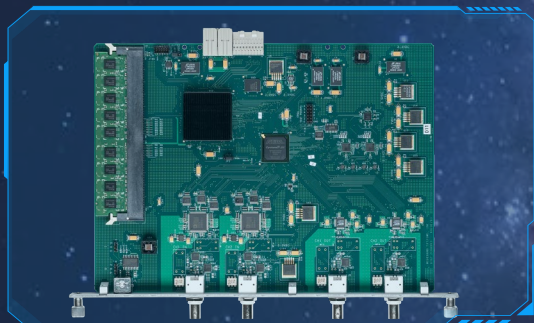
4A4D

Supports four analog and four digital PCM I/O channels. Analog is user-configurable (10KSPS–80MSPS, 8-bit resolution). Digital PCM up to 52 Mbps with flexible coding, framing, and monitoring. Includes end-to-end monitor mode for RECORD/IDLE.



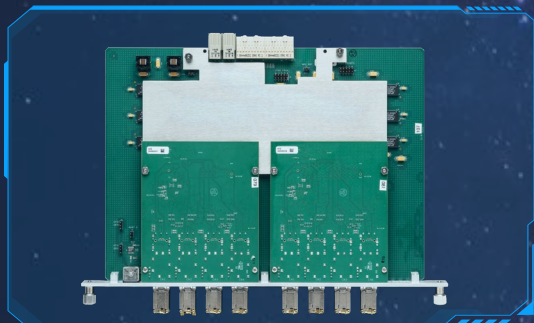
12D

Provides twelve digital PCM I/O channels supporting rates up to 40 Mbps. Configurable for clock phase, code, level, randomize/de-randomize, and frame definition. Includes end-to-end monitor mode for RECORD/IDLE.



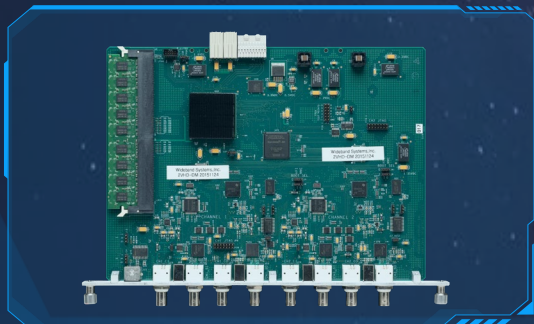
2IF70, 140 & 370

Supports two IF I/O channels with AGC to maintain signal levels. Tuned input/output filters ensure high-fidelity capture, suppressing harmonics and aliasing. Includes digital filtering with $\sin x/x$ correction to improve frequency response.



8E

Eight Ethernet I/O channels for recording all traffic or filtered packets by IP/UDP. Replay outputs original or redirected streams with filtering options. Each channel configurable for copper or optical I/O using COTS SFP modules.



2V-HD60

Supports two SD/HD-SDI video/audio record/playback channels with MPEG2 or H.264 compression. Handles both SD (analog/composite) and HD digital video. Delivers flexible high-quality video capture and reproduction.



Options include 50, 100, 200, and 220MHz

STATION

5

Wideband Systems, Inc.



TRAILBLAZING GROUND TELEMETRY RECORDING

WHAT'S NEW

Chapter 7 Playback.

Integrated Chapter 7 support enables playback of mission packet data.

NUI Display Scaling.

Modern, responsive UI that adjusts to screen size for easier navigation in any setup.

Windows 11 Support.

Now shipping with Windows 11 for enhanced performance, compatibility, and security.

1553 Filtering.

Message filtering and data masking.

ARC.

Multi-recorder control combining channels from separate recorders into a coherent set of virtualized channels.

Expanded/Variable RF Bandwidth

Options include 50, 100, 200, and 220MHz

Chapter 10 File Merging.

Seamlessly merge Ch10 files from multiple sources for streamlined post-mission processing.

Platform IT Ready.

Deployable OS image designed for mobile and airborne platforms with Platform IT requirements.

DC Power Flexibility.

All recorder models are available with DC power input options for field or mobile use.

