Model DRS8500X

Wideband Telemetry Recorder

Wideband Systems, Inc.

ADVANCED RECORDING SOLUTIONS

FEATURES

- 4800+ Mbps Sustained Data Rate Record and Playback
- Native IRIG-106 Chapter 10 Recording Format
- Direct Replacement for Legacy Products
- Two Removable Diskbanks
    - Capacity up to 14.4TB per Bank
    - Solid-state or Rotary Disk Drives
- Accepts up to Seven Interface Boards
    - Field Installable and Upgradeable
- Timing Interfaces
    - Accepts IRIG-A, IRIG-B, and IRIG-G
    - External 1PPS and 10MHz Reference
    - Optional NASA 36

The DRS8500X is the flagship member of the Industry-leading Digital Recording System (DRS) product family. Optimized for the Telemetry market, the DRS8500X provides exceptional bandwidth and scalability while maintaining strict compliance with the IRIG-106 Chapter 10 standard.

The DRS8500X accepts up to seven user-installable and upgradeable Interface Boards (IFBs) providing extensive support for a wide range of telemetry applications. Employing a dual-disk bank architecture, the system provides user-selectable, flexible recording modes: striped (high data rate), mirrored (redundancy), or sequential (extended duration).

With a storage capacity of 4.8 to 19.2TB and an aggregate data rate of 4800+ Mbps, the DRS8500X is uniquely qualified for the most demanding telemetry requirements.

Building on the success of our robust and reliable Digital Recording Systems, Wideband Systems has raised the bar again – Introducing the highest performance Digital Recording System available – the DRS8500X.
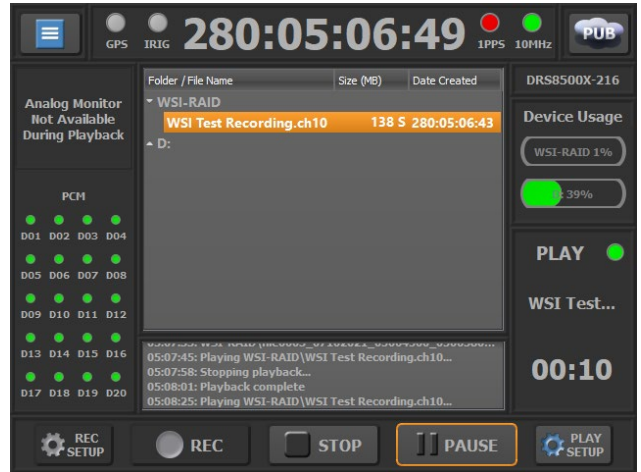
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Model DRS8500X
Wideband Telemetry Recorder

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TECHNICAL SPECIFICATIONS

Dimensions:	8.75 x 19 x 23.5 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
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
Diskbank Capacity:	2.4 TB (optional to 14.4TB)
Operator Control:	Local Control via Front Panel 8.4" Touch Screen and/or auxiliary KVMRemote 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 40Mbps)
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 Videos, rates to 12 Mbps
2IFxx	2 IFs (xx = Center Frequency)
12M1553	12 MIL-STD-1553

General Analog Interface Boards:
Multi-channel, 8-16 bit A-to-D and D-to-A at 50K to 200 MSPS
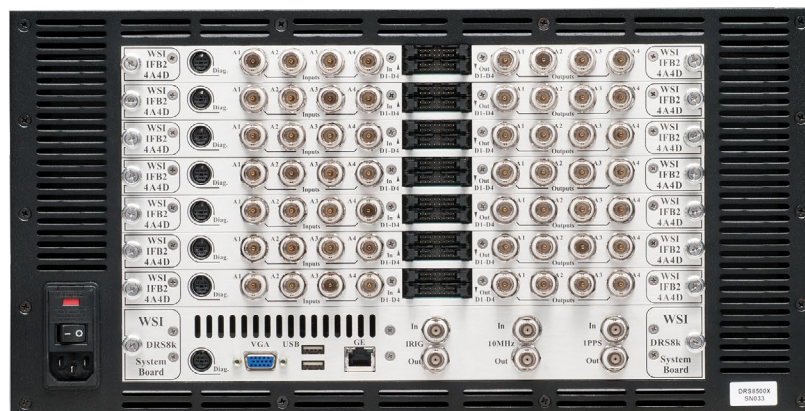
General Digital Interface Boards:
1, 8, 16, 32 bits in ECL, PECL, LVDS, TTL logic

Other Interface Boards:
Telecom, CDL, Serial FPDP, CameraLink, DCRSi, DIR, and many more …

Custom Interfaces:
Can be provided quickly and cost-effectively

DRS8500X WARRANTY

Wideband Systems provides:
Industry-Leading Two-Year Limited Warranty
No-Cost Firmware and Software Updates
Lifetime Technical Support

ORDERING INFORMATION

Please contact our technical sales staff to configure your Digital Recording System. Each system can be tailored to meet your interface, control, and fault tolerance requirements.
Email: sales@wideband-sys.com
Phone: 301.588.8840

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