Model DRS8500X
WIDEBAND TELEMETRY RECORDER

DELTA TELEMETRY SYSTEMS

DATA RECORDING

KEY 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 16TB 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
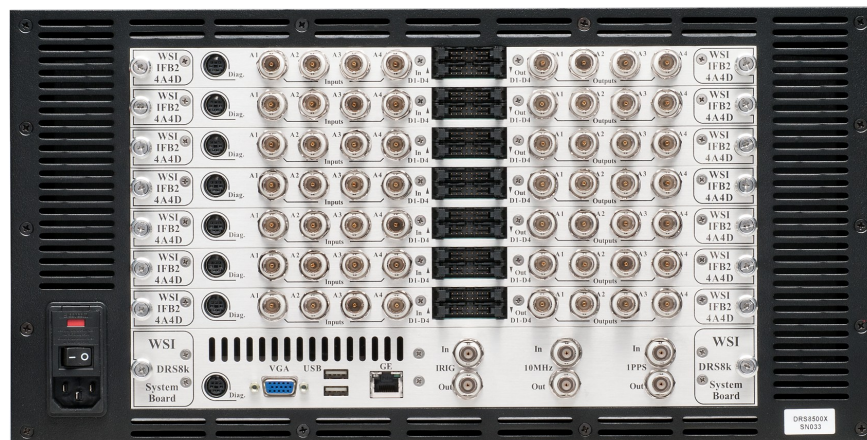 - Optional NASA 36

GENERAL DESCRIPTION

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 8 to 32TB 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.

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

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TECHNICAL SPECIFICATIONS

Dimensions:	8.75 x 19 x 23 inches
Weight:	55 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
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:	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 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

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: +1.301.588.8840

DRS8500X WARRANTY

Wideband Systems provides:

Industry-Leading Three-Year Limited Warranty

No-Cost Firmware and Software Updates

Lifetime Technical Support

Inquire today to learn more about the DRS8500X operation & control functions.