



# DRS8300X

## Wideband Telemetry Recorder

*Performance, Reliability, & Support*

The DRS8300X is the workhorse member of the Industry-leading Digital Recording System (DRS) product family. Optimized for the Telemetry market, the DRS8300X provides exceptional bandwidth and scalability while maintaining strict compliance with the IRIG-106 CH10 Standard.

The DRS8300X accepts up to three user-installable Interface Boards (IFBs) providing extensive support for a wide range of telemetry applications. Employing a dual-diskbank architecture, the system provides user-selectable, flexible recording modes: striped (high data rate), mirrored (redundancy), or sequential (extended duration).

With a storage capacity of up to 3.6TB and an aggregate data rate of 3200+ Mbps, the DRS8300X is uniquely qualified for the most demanding telemetry requirements. The DRS8300X excels in pre-detect analog, post-detect digital PCM, and direct IF recording, as well as Video, Ethernet, Serial, and 1553 recording.

Building on the success of our robust and reliable Digital Recording Systems, Wideband Systems has raised the bar again – Introducing the Next Generation Digital Recording System – the DRS8300X.

**3200+ Mbps Sustained Data Rate Record and Playback**

**Native IRIG-106 CH10 and WSI Recording Formats**

**Data Export and Data Monitoring while Recording**

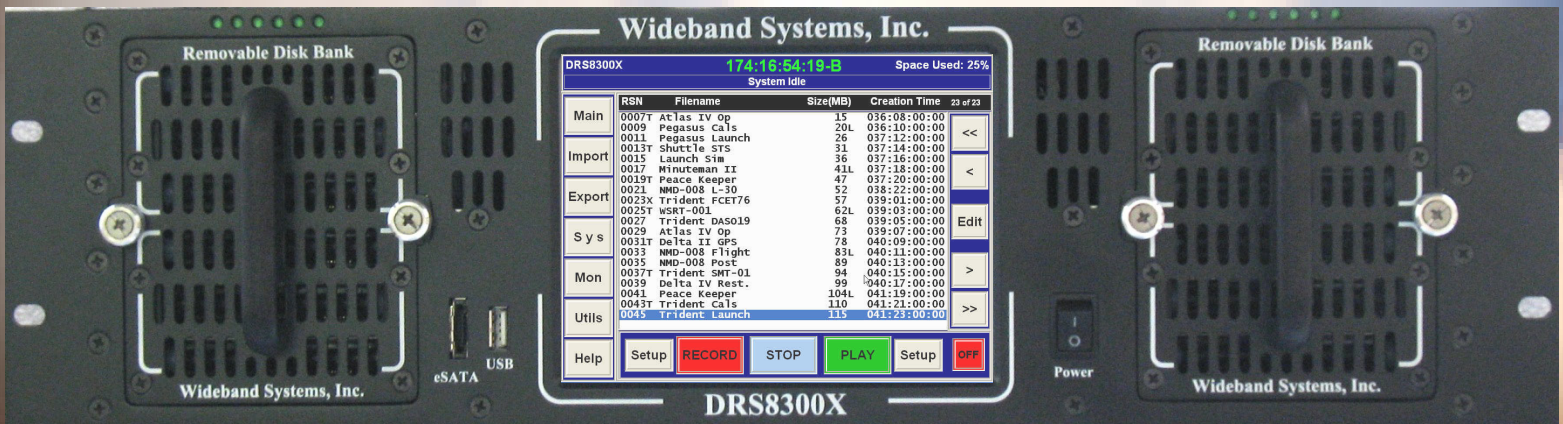
**Two Removable Diskbanks  
Capacity up to 1.8 TB per Diskbank  
Solid-state or Hard Disk Drives**

**Flexible Recording Modes:  
Striped, Mirrored, or Sequential**

**Accepts up to 3 User-installable Interface Boards (IFBs)**

**Accepts IRIG-A/B/G & NASA 36 External 1PPS and 10MHz Refs**

**Gigabit Ethernet Network**



*Industry-leading  
Performance, Reliability, & Support*



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### Technical Specifications

- Dimensions:** 5.25 x 19 x 23 inches  
**Weight:** 40 lbs  
**Temp (op):** 5 to 50 degs C  
**Humidity (op):** 5% to 95%, non-cond  
**Temp (non-op):** -25 to 65 degs C  
**Power (VAC):** 90-132/180-264 VAC  
**Power (Hz):** 47 to 63 Hz  
**Power (Watts):** <350 Watts
- Record Media:** Two Removable Diskbanks  
**Disks/Diskbank:** Six SFF 2.5" Disks  
**Disk Type:** Hard Disk or Solid-State Disk  
**Disk Interface:** SAS or SATA  
**Diskbank Capacity:** 432GB, 864GB, or 1.8TB
- 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 & eSATA devices and/or Network attached devices

### Front Panel Touch Screen Control

DRS8300X		174:16:54:19-B		Space Used: 25%	
System Idle					
	RSN	Filename	Size(MB)	Creation Time	23 of 23
Main	0007T	Atlas IV Op	15	036:08:00:00	
	0009	Pegasus Cals	20L	036:10:00:00	
	0011	Pegasus Launch	26	037:12:00:00	<<
Import	0013T	Shuttle STS	31	037:14:00:00	
	0015	Launch Sim	36	037:16:00:00	
	0017	Minuteman II	41L	037:18:00:00	<
	0019T	Peace Keeper	47	037:20:00:00	
Export	0021	NMD-008 L-30	52	038:22:00:00	
	0023X	Trident FCET76	57	039:01:00:00	
	0025T	WSRT-001	62L	039:03:00:00	
	0027	Trident DAS019	68	039:05:00:00	Edit
Sys	0029	Atlas IV Op	73	039:07:00:00	
	0031T	Delta II GPS	78	040:09:00:00	
	0033	NMD-008 Flight	83L	040:11:00:00	
	0035	NMD-008 Post	89	040:13:00:00	
Mon	0037T	Trident SMT-01	94	040:15:00:00	>
	0039	Delta IV Rest.	99	040:17:00:00	
	0041	Peace Keeper	104L	041:19:00:00	
	0043T	Trident Cals	110	041:21:00:00	>>
Utils	0045	Trident Launch	115	041:23:00:00	

Help   Setup   **RECORD**   STOP   **PLAY**   Setup   **OFF**

### Interface Options

#### Standard Telemetry Interface Boards:

- 4A4D** 4 Analog Chs (up to 80MSPS)  
 4 Digital PCM Chs (0-40Mbps)  
**12D** 12 Digital PCM Chs (0-40Mbps)  
**2CHA1** 2 High-perf Analog Chs (200MSPS)  
**1E4S** 1 Ethernet Ch (10/100/1000)  
 4 RS-232 Serial Chs (up to 1MBaud)  
**2V** 2 Video Chs NTSC/PAL  
 Uncompressed and MPEG2  
**12M1553** 12 Chs Mil-Std-1553

#### General Analog Interface Boards:

Multi-ch, 8-16 bit AD/DAs, 50KSPS-400MSPS

#### General Digital Interface Boards:

1/8/16/32 bits, 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

### DRS8300X Warranty

Industry-leading Two Year Limited Warranty

### 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](mailto:sales@wideband-sys.com)

Voice: (949) 420-0474

### Lifetime Product Support

Firmware & Software upgrades and technical support are provided without additional cost to our valued customers.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE