



DRS8500X

Wideband Telemetry Recorder

Performance, Reliability, & Support

The DRS8500X is the flagship member of the Industry-leading Digital Recording System (DRS) product family. Optimized for the Telemetry market, the DRS8500X provides exceptionable bandwidth and scalability while maintaining strict compliance with the IRIG-106 CH10 Standard.

The DRS8500X accepts up to seven 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 4.8TB and an aggregate data rate of 4800+ Mbps, the DRS8500X is uniquely qualified for the most demanding telemetry requirements. The DRS8500X 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 DRS8500X.

**4800+ 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 2.4TB per Diskbank
Solid-state or Hard Disk Drives**

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

**Accepts up to 7 User-installable
Interface Boards (IFBs)**

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

Gigabit Ethernet Network



*Industry-leading
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Reliability,
& Support*



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Technical Specifications

Dimensions: 8.75 x 19 x 23 inches
Weight: 55 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): <450 Watts

Record Media: Two Removable Diskbanks
Disks/Diskbank: Eight SFF 2.5" Disks
Disk Type: Hard Disk or Solid-State Disk
Disk Interface: SAS or SATA
Diskbank Capacity: 500GB, 1.2TB, or 2.4TB

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 &
 eSATA devices and/or Network attached devices

Front Panel Touch Screen Control

264:13:08:03		DRS-8500-001		0 1	
RECORD: RSN024 264:13:07:59 - 264:13:08:01 Running: 2 Remaining: 92%					
	RSN	Filename	Size(MB)	Start Time	
Main	001	RSN Delta II GPS	65536.0	036:02:00:00L	
	002	RSN Delta IV op	131072.0	036:04:00:00	<<
	003T	RSN Delta II Sim	196608.0	036:06:00:00	
Import	004	RSN Atlas IV op	262144.0	036:08:00:00	<
	005	RSN Pegasus Cals	327680.0	036:10:00:00	
Export	006	RSN Pegasus Launch	393216.0	037:12:00:00L	
	007	RSN Shuttle STS	458752.0	037:14:00:00	
	008	RSN Launch Sim	524288.0	037:16:00:00	
Config	009	RSN Minuteman II	589824.0	037:18:00:00	
	010	RSN Peace Keeper	655360.0	037:20:00:00	Edit
	011T	RSN NMD-008 L-30	720896.0	038:22:00:00L	
	012	RSN Trident FCET76	786432.0	038:24:00:00	
Status	013	RSN WSRT-001	851968.0	038:26:00:00	
	014	RSN Trident DAS019	917504.0	038:28:00:00	
	015	RSN Atlas IV Op	983040.0	038:30:00:00	
	016	RSN Delta II GPS	1048576.0	039:32:00:00L	>
	017	RSN NMD-008 Flight	1114112.0	039:34:00:00	
Utils	018	RSN NMD-008 Post	1179648.0	039:36:00:00	
	019T	RSN Trident SMT-01	1245184.0	039:38:00:00	>>
	020	RSN Delta IV Rest.	1310720.0	039:40:00:00	
	021	RSN Peace Keeper	1376256.0	040:42:00:00L	
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-600MSPS

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

DRS8500X 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

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