

DSRs 240

Direct DCRsi Replacement

The Ampex DSRs 240 is designed as a plug replacement for DCRsi instrumentation recorders. It can also be used to download data collected on Ampex DSRs Airborne Recorders.

The DSRs 240 uses Windows or Linux operating system. It is designed for standard 19" rack. The Solid State or Disk Removable Memory Modules (RMMs) plug into the RMM Port located in the front of the recorder.

The Model DSRs 240 is a flexible cPCI-based system that is configured with DCRsi I/O interface making it a plug replacement for DCRsi 240 Lab recorder with twice the data rate capability and up to 20x storage capacity.

Crucial operations performed by the DSRs 240 include multiple mechanisms for off-loading of RMM data to an external file system. Files can be committed to a file system with special extensions for later identification purposes and can preserve Time Code information acquired with the data to support time based searching of the data.

Downloading occurs at high data rates (50Mbyte/Second or higher) to local disk / RAID disk. The system can be configured for automatic backup/archive to internal LTO tape drive for preservation of the acquired mission data. The user data can be dubbed onto a DCRsi recorder preserving the original DCRsi tape format.



Ampex DSRs 240 Rackmount Recorder

- ***DCRsi plug compatible***
- ***2x Data rate***
- ***20x Storage Capacity***
- ***Half size, lighter***
- ***Lower power consumption***
- ***Disk based or Solid State RMM***
- ***STANAG 4575 download port***
- ***High Speed Download***
- ***Network Attachable***
- ***Data Archival***
- ***Windows / Linux Platform***
- ***Read-While-Write capability***



DSRs 240 Specifications

Performance	Disk Module	Solid State Module
Data Rate	480 Mb/s+	480+ Mb/s
User Data Storage	960 GB	1.1 TB
Error Rate	$< 1 \times 10^{-12}$	$< 1 \times 10^{-12}$
Temperature		
Operating	0 °C to +50 °C	-20 °C to +70 °C
Nonoperating	-50 °C to +80 °C	-50 °C to +80 °C
Humidity	5 % to 95 % RH	5 % to 95 % RH
Instrumentation Interfaces		
Data Interface / Format	8 bit parallel, differential ECL STANAG 4575 Fiber Channel Ethernet 100 Base T, Gigabit Ethernet	
Control Interface	EIA-232, EIA-422, or Discrete Cockpit Control	
Time Code	IRIG B	
Options		
LTO Tape Drive	Internal Tape Drive for archiving	
Hard Drive	Internal Hard Drive for Downloading	
PCI (Optional)	External, Single Board (plugs into Host computer)	
VME (Optional)	External, Single VME Board (plugs into Host Computer)	
Physical Characteristics		
Size	7" H x 19" W x 15.25" D	
Weight	< 45 lbs	
Power		
Power Input	110 – 220 VAC, 50 – 60 Hz	
Power Dissipation	<250 Watts	

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