

DDRs 400

The DDRs 400 Digital Data Recorder is designed for airborne applications requiring high data rate and storage capacity.

A hermetically sealed module enables the Recorder to operate at high altitude and provides protection from moisture and dust. A standard DCRsi interface provides plug compatibility in existing DCRsi installations. Small size and low power consumption makes this recorder an ideal choice. Data downloading direct to DIS or DCRsi Recorders facilitates archiving of data in Automated Libraries.

Direct Ethernet connection also available.

Typical Applications

- Airborne Image Recording from E/O, IR and SAR Sensors.
- Flight Test, Radar Development, Telemetry Data Acquisition.
- Shipborne/Airborne Acoustic Sonar Data Acquisition
- Elint/Comint Data Acquisition
- Spare Compact PCI Slot for Video/Audio, Digital, PCM, Processing, or Custom I/O
- Up To 2 Channel Video and 4 Channel PCM



Ampex DDRs 400 Digital Data Recorder

- *DCRsi compatible interface*
- *STANAG 4575 Compatibility*
- *Sustained data rate 400 Mb/s or higher*
- *Storage capacity up to 320 GB*
- *Low power consumption*
- *Compact size*
- *Small mass*
- *Removable hermetically sealed cartridge, disk or solid state*
- *IRIG B Time code Input*
- *8 bit parallel Data Interface*
- *RS 232/422 Control Interface*
- *Optional, single board, external high speed PCI computer interface.*



Removable Module

DDRs 400 Specifications

Performance

Data Rate
User Data Storage

Disk Module

400 Mb/s
160 GB or 320 GB

Error Rate
Altitude
Temperature
 Operating
 Nonoperating
Humidity
Random vibration

$< 1 \times 10^{-12}$
50,000 ft
-20 °C to +50 °C, limited time at +60°C
-50 °C to +80 °C
10 % to 90 % RH non-condensing
6 g_{rms} with 160 GB RMM
5 g_{rms} with 320 GB RMM

Shock

10 g, 11ms

Interfaces

Data Interface / Format

8 bit parallel, differential ECL
Ethernet 100 Base T
Optional IRIG 106 Chapter 10
Optional STANAG 4575 Fibre Channel
Optional Gigabit Ethernet, SCSI
Optional SONET OC-3

Control Interface
Time Code
Spare Slot
Internal MUX

EIA-232, EIA-422, or Discrete
IRIG B
One 3U size CPCI slot for custom interface
PCM, Analog, Video, 1553, Custom Serial or Parallel

Computer Interface

Fast Ethernet
PCI (Optional)
VME (Optional)

Built-In (100baseT or Gigabit)
External, Single Board (plugs into Host computer)
External, Single VME Board (plugs into Host Computer)

Physical Characteristics

Size
Weight

7" H x 9" W x 11" D
< 20 lbs

Power

Power Input
Power Dissipation

28 VDC per MIL-STD 704F
80 Watts w/o heaters
<125 Watts with heaters on

Ground Station Playback / Download

Rackmount Models 410 or 420

Specifications subject to change without notice or obligation

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