### **DATA SYSTEMS**



ACQUIRE & PROCESS RECORD TELEMETER & STREAM REPLAY

# **MDR**

**Highly Versatile Airborne Data Acquisition, Recording** & Dissemination System







FLIGHT TEST INSTRUMENTATION

The MDR system allows collecting data in **complex and harsh** airborne flight test environments. Thanks to its modularity, the system will adapt from the lightest to the most extensive daily test requirements in terms of variety of signals to be recorded, environmental constraints and recording time.

A wide range of signal interface modules tailored to the most common data sources and busses ensure that today's and tomorrow's requirements will be addressed.

The **modular MDR design** provides the flexibility for choosing cost-effective systems or high-end FTI systems with highcapacity storage media. There are mainframes available with 2, 4 or 8 slots for signal interface modules.

This configuration flexibility is completed by advanced data processing (filtering, decimation, etc.) and managing capabilities, including UDP and most sophisticated Chapter 7 version 2017 streaming techniques.



Flight Test Applications





In-Service Recording & Telemetry





Certification Tests

### SCALABLE MAINFRAMES

2 to 8 slots for signal interface cards

serial, discrete...

**FULL SPECTRUM OF INTERFACES** PCM, Ethernet, ARINC 429, MIL 1553, CAN, analog, video,

**EASY SETUP & RE-CONFIGURATION** 

In-the-field configuration, adaptable to any scenario

MULTI-RECORDING

Simultaneous recording of multiple data subsets in separate files on various storage media

HYBRID MODULES

Up to 4 different data types within one module

PIONEER IN IRIG 106 CHAPTER 7 TELEMETRY



### **FLIGHT TEST INSTRUMENTATION**

## **MDR**

### > TECHNICAL SPECIFICATIONS

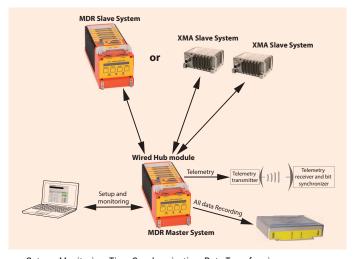
Bit rate	800 Mbit/s
Ethernet	, ,
Time coding	
High precision oscillator 10ppb accuracy	
Built-in GPS receiver	
Real time clock (RTC)	
Temperature (operational)	MIL-STD-810F
Vibration	MIL-STD-810F
Shock/Acceleration	MIL-STD-810F
Storage capabilities	
Data format	IRIG 106 Chapter 10

### > AVAILABLE IN 4 MAINFRAME VARIANTS

MDR-2	2 module slots/CF card
MDR-4 CF	4 module slots/CF-card
MDR-4 RC	4 module slots/storage modules
MDR-8	8 module slots/storage modules

### > SPECIAL FEATURES

- ► Multi-file recording
- ► Multi-destination recording
- ► Access and streaming of pre-recorded data while recording
- ► Available bandwidth for streaming
- ► Support of native formats (MPEG, PCAP, ...)
- ► Live setup modification via Ethernet connection and comfortable configuration software



Set-up, Monitoring, Time Synchronization, Data Transfer via one single wired Ethernet link.



#### **GLOBAL SALES**

5, Avenue des Andes - CS 90101 - 91978 Courtaboeuf Cedex - FRANCE - Tel.: +33 1 69 82 78 00 - Email: sales.sdsy@safrangroup.com