DATA SYSTEMS



ACQUIRE & PROCESS RECORD TELEMETER & STREAM REPLAY



Hybrid Concept for Data Recording & Processing

The Ultra-Fast Onboard **FTI Solution**





FLIGHT TEST INSTRUMENTATION

The **highly flexible** platform concept of the MDR-GT family is technically based on a common mainframe with many highend built-in interfaces and functions. Specific functions and requirements can be addressed by adding dedicated interface canisters (featuring signal interfaces and/or storage media). With a selection range from **several mainframe variants** and canister types together with a high number of signal modules, the MDR-GT offers configuration options for almost all applications and requirements. Backward compatibility to all MDR modules is an additional benefit.

Ultra-high data rates and storage capacities plus advanced data processing allow for extensive data recording and management.

The MDR-GT leverages these advanced capabilities to meet the most demanding requirements in future applications.



Next Gen Flight Test Instrumentation





Big FTI Data





Certification Tests

ULTRA-HIGH DATA RATE AND STORAGE CAPACITY

Up to 16 Gbit/s and up to 80 TB

ADVANCED DATA PROCESSING AND MANAGEMENT CAPABILITIES On-Board Data Analysis

EXTENDED CONFIGURATION FLEXIBILITY

User-Configurable Canister Concept

FULL SPECTRUM OF INTERFACES 10GigE, Video, Fibre Channel, ARINC 429, PCM, MIL-STD-1553, H.265 Video, Analog...

INTEGRATED TELEMETRY

IRIG 106-17 Chapter 7 Support

READY FOR HIGH-END USE CASES: WIRELESS. AIRBORNE NAS. PREPARED FOR ARINC818



FLIGHT TEST INSTRUMENTATION

MDR-GT

COMMON MAINFRAME

MDR-GT Performance

MDR-GT/MDR-GTn recording data rateu	p to	16	Gbit/s
Internal data rate	3>	32	Gbit/s
Possible storage capacity (via 2 canisters)	u	p to	80TB

10 Gigabit/s Ethernet

2 ports, 10GBASE-T/1000BASE-T/100BASE-TX, Ethernet data recording, Remote control, UDP broadcast, PTP (Precision Time Protocol; time code sync. IEEE 1588-2002 / IEEE 1588-2008), FTP server download function

Other Setup/Control/Remote Interfaces

Setup, User specific data	1 SD-Card slot (optional)
Serial Remote	1 channel RS232 or RS422
serial remote	
Contact Remote (CR)	8 discrete input/output

Flexibility for Classified Environments

Definable booting sectors. Only volatile memory

Device Access Protection

Secure Authentication + TPM Verification

Voice

Channels	2 input single ended headset channels
	2 single ended head set monitor outputs

Time Coding

Input Standard codes ...IRIG A, B, G, DC-AM / 1 pps / 10 pps, GPS time code (NMEA), PTP
Output Standard codes................IRIG A, B, G, DC-AM, 1 pps / 10 pps; GPS NMEA on RS232/RS422, PTP

Optional: Built-in GPS Receiver

Max. Time System Accuracy ±3 ppb

Telemetry Output

Physical	2 independent output channels
Output contentIRIG 106 Chapte	er 7 constant bit rate PCM data stream
Output signal	

Autonomous Monitoring System

Intelligent Self Diagnostic

GLOBAL SALES

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