The highly flexible modular GMDR system is a versatile and future-proof solution for acquisition, recording, dissemination and replay of FTI data in ground station applications. With its high integration, incomparable range of supported video interfaces and full compatibility with global leading MDR products, the GMDR integrates seamlessly into customers’ existing test center topologies.

With its intelligent data reduction through segmentation, pre-selection and filtering as well as the capability to freely disseminate subsets of data among several network destinations, GMDR efficiently reduces the operator’s workload when analyzing test results.

For standard PCM/Ch7-Telemetry applications, two simplified, cost-efficient variants with integrated PCM/Ch7-Telemetry signal boards and one Data Express technology (DE50)-compatible storage media slot are available.
TELEMETRY GROUND SOLUTIONS
GMDR

> TECHNICAL SPECIFICATIONS

Bit rate ................................................................. 800 Mbit/s
Ethernet ............................................................. UDP broadcast, PTP (Precision Time Protocol; time code sync. IEEE 1588-2002/IEEE 1588-2008), FTP server download function, remote control
Time coding ........................................................ IRIG A, B, G, 1 pps / 10 pps, GPS time code, PTP (Precision Time Protocol; IEEE 1588-2002 (slave) / IEEE 1588-2008 (slave))
Built-in GPS receiver
Real time clock (RTC)
Storage capabilities .............................................. CF-cards, SSD, HDD
.................................................................................. Capacity up to 3.6 TB

> AVAILABLE IN 6 MAINFRAME VARIANTS

GMDR-2 M4M ........................................... 2 module slots, integrated PCM signal board, 1 storage media slot (DE50 compatible)
GMDR-2 TM ........................................... 2 module slots, integrated telemetry signal board, 1 storage media slot (DE50 compatible)
GMDR-6 ........................................... 6 module slots, 1 storage module slot
GMDR-12 ........................................... 12 module slots, 1 storage module slot
GMDR-12 DDS ........................................... 12 module slots, 2 storage media slots (DE50 compatible)
GMDR-12 MDS ........................................... 12 module slots, 1 storage module slot and 1 storage media slot (DE50 compatible)

> 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
- Seamless and cost-effective integration into telemetry chain thanks to IRIG 106-17 Chapter 7, with mix of newest Chapter 10 and legacy Chapter 4 techniques
- Cost-efficient variants GMDR-2 M4M / GMDR-2 TM with built-in signal boards for PCM/Ch7-Telemetry applications and 1 DE50-compatible storage media slot

> APPLICATION EXAMPLE (TELEMETRY DOWNLINK)

Master System
Mass Data Acquisition Unit

Slave System
Remote Acquisition Unit

Camera
Telemetry transmitter
Telemetry receiver and bit synchronizer
Set-up and monitoring

IRIG 106 Chapter 7 (analog, PCM, Video)

Video

GLOBAL SALES
S A F R A N

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

USA
3005 Business Park Dr - Norcross, GA 30071 - USA – Tel.: +1 770 753 4017 - Email: sales@SafranDataSystemsUS.com

Content of this document is for reference only. Subject to change without prior notice. COL00011.3. Credits: Safran Data Systems