



GMDR

Fast and Flexible System for Ground Station Applications



 **TELEMETRY GROUND SOLUTIONS**

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.



Ground Station / Control Room



Mobile Stations



System Integration Labs

HIGHLY FLEXIBLE MODULAR DESIGN

GMDR2/6: 1U Form Factor, 2/6 module slots
GMDR12: 2U Form Factor, 12 module slots

DUAL-DRIVE VARIANTS

Flexible usage of high-end MDR or highly cost-effective storage media

ALL-ROUNDER

Providing Record and Replay capabilities

INCOMPARABLE RANGE OF SUPPORTED VIDEO INTERFACES

DVI, SDI, PAL, NTSC, RTP

REAL-TIME DATA ACCESS

Live monitoring of recordings

MOST ADVANCED IRIG 106-17 CHAPTER 7 TELEMETRY GROUND STATION

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

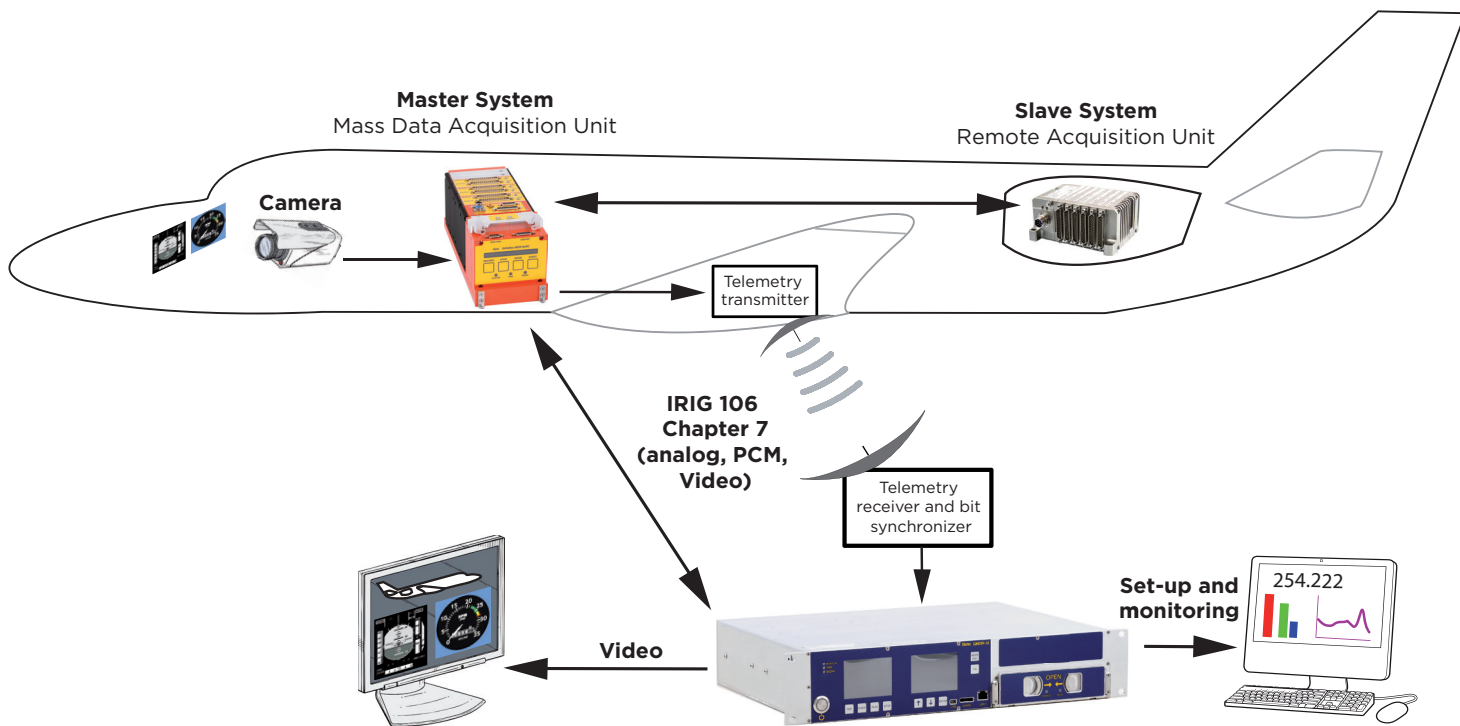
GMDR-2 M4M 2 module slots, integrated PCM signal board, 1 storage media slot (DE50 compatible)
GMDR-2 TM 2 module slots, integrated telemetry signal board, 1 storage media slot (DE50 compatible)
GMDR-6 6 module slots, 1 storage module slot

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)



GLOBAL SALES

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



Instrumentation Devices Srl

Via Acquanera 29 - 22100 COMO (Italy)
 ph +39 031 525 391- fax +39 031 507 984
 info@instrumentation.it - www.instrumentation.it