



Portable, Modular, Ground Station Recording and Reproduction System

HEIM DATA

Ground Station System Rugged (GSSr)

- ▶ Up to 1.7 Gbit/s Aggregate Data Rate
- ▶ Up to 8 TB Storage Capacity
- ▶ Versatile, Scalable, Expandable to meet future requirements
- ▶ Removable media for secure applications
- ▶ Maintenance Advantage due to modularity of system
- ▶ IRIG106 Chapter 10 Compliant
- ▶ Can support a distributed system (Interfaces can be positioned near signal sources or remotely)
- ▶ Supports up to 4 simultaneous record media in real-time with channel filtering

The GSS ground station systems offer a one-stop solution for IRIG106 Chapter 10 compatible recording or reproduction of a wide range of signal sources.

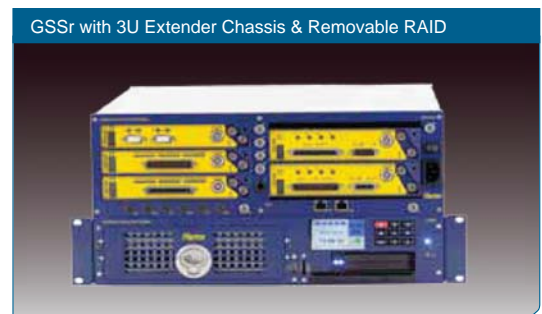
This modular system is tailored to specific application requirements by configuring the required modular interfaces, combining video, telemetry, avionics, and communications signals into one fully-synchronized recording.

The GSSr solution provides all the record and replay capability of the GSS100 conveniently deployed in a compact, lightweight design.

DATaRec 4 Signal Interface Modules can be mounted locally* and/or remotely from the GSSr. Ergonomic controls and display provide the user with system status feedback and simple operation. The built-in hard drive RAID is easily removable to facilitate separation of data from multiple or secure missions.

The GSSr solution is ideal for large ground station, transportable, and rugged applications.

* Rack mount extender chassis and removable RAID also available.



Signal Interfaces

- Analog
- PCM
- Ethernet
- Bus Interfaces
- Video
- Asynchronous Data

Applications

- Range Telemetry
- Ground Station Data Acquisition
- Ground Station Data Reproduction
- IRIG106 Chapter 10 Data Reproduction



Technical Details - GSSr

SYSTEM	
Data Rate	800 Mbit/s or 1.7 Gbit/s
Channel Count	Up to 1152
Data Format	IRIG106 Chapter 10
Storage Capacity	Up to 4 TB
Display	3" TFT
Control Buttons	Yes: Record, Play, Stop, Rewind, Fast Forward
Remote Control	Via Ethernet
Data Interfaces	USB, GiGE (Optional Interfaces: SCSI, 1394b, Fiber Channel, Others on Request)
Monitoring & Control	Server / Client GSS User Interface
Recording / UDP Broadcast Destinations	Up to 4
Selective Channel Recording / Broadcasting	Yes, select different subsets of record channels to send to different destinations
Real-Time Clock	Yes
Time Code Input / Output	Input: IRIG A, B, G, GPS (NEMA) / Output: IRIG A, B, G
PPS Input / Output	Input: 1 or 10 pps / Output: 1 or 10 pps
Temperature Range	0 – 50 °C
Power	100 – 240 VAC 50/60 Hz
Mounting	19" Rack Mount
Dimensions	2U x 21.6 inches deep (550 mm)
Weight	37 lb (17 kg) (configuration dependent)
Signal Interfaces	
Analog	ANH100: 2 Channel Record / Replay, 1.0 to 10 MHz Bandwidth, 16 or 8 Bit Resolution ANH101: 1 Channel Record / Replay, 1 to 30 MHz Bandwidth, 16 or 8 Bit Resolution DIC6: 6 Channel Record, 80 kHz Bandwidth, 24 Bit Resolution DIC24: 24 Channel Record, 20 kHz Bandwidth, 24 Bit Resolution OUT6: 6 Channel Replay, 80 kHz Bandwidth, 24 Bit Resolution
PCM	MRG100: 8 Channel Record / Replay, Up to 30 Mbit/s Per Channel Throughput Packed & Unpacked
Ethernet	ETH100: 2 Channel Record / Replay, 1/10/1000 BaseT Maximum, 600 Mbit/s Overall Data Rate
Bus Interfaces	UAR100: 8 Channel Dual Redundant, MIL-STD-1553 Record UAP100: 8 Channel Dual Redundant, MIL-STD-1553 Replay ARR100: 24 Channel ARINC 429 Record ARP100: 24 Channel ARINC 429 Replay CAN4: 4 Channel CAN 2.0 A/B Record
Video	VCR100: 4 Channel Video Record VCP100: 4 Channel Video Replay
Asynchronous Data	ASM100: 8 Channel Asynchronous Serial Data, Up to 230.4 kB Record / Replay

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