



General

The GSS is a ground based system for data acquisition, data storage and data distribution. The GSS concept integrates the Signal Interface Modules of the HEIM DATaRec 4 series into a high-performance 19" rack mountable industrial server.

The HEIM DATaRec 4 signal interfaces are based on Heim Systems long-term experience of data acquisition and recording techniques, as used in the HEIM DATaRec 1, 2 and 3 family products, which are worldwide used in ground and airborne applications.

The GSS system consists of a GSS100, which contains an industrial computer, the Storage Media Modules (SMM) and the HEIM DATaRec 4 Modules. The GSS100 holds 1 Link Module and up to 8 Signal Interface Modules.

For recording purposes the GSS100 can hold 2 independent Storage Media Modules which are connected to a RAID controller. With the existing COTS hard disk capacities, one Storage Media Module can have a total capacity >2 TB.

GSS-System

Data Rate	up to 1.6 Gbit/s (merging data from up to 3 LMF GSS Modules)
Recorded data format	IRIG 106 Chapter 10 compliant
Display	8.3" TFT display for setup and control
Local Control	Soft-Keys and turn wheel for easy operation or via integral keyboard and mouse
Remote Control	via Ethernet

Storage device	2 slots for Storage Media Modules raid level 5 (default) capacity depending on COTS available HDD
Free module place	extractable drawer for up to 8 Signal Interfaces Modules and one Link Module
Accessories	DVD burner Removable Computer Operating system hard disk
Interfaces	Gb Ethernet USB IEEE 1394b or Fiberchannel (optional) RS-232
Dimensions	19" 6U (479 x 268,75 x 650 mm)
Weight	up to 50 kg depending on the installed modules
Power supply	115 / 230 Vac and 50 / 60 Hz
Power consumption	500 W typical depending on the module configuration
Operating modes (including GSS GUI Software)	setup and control of all HEIM DATaRec 4 Signal Modules recording to one storage device parallel recording up to 4 devices selective recording of channels playback from selected storage device channel assignment for play search and shuttle UDP broadcast

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