

EAGLE

32 Channel Rack Mount Acquisition

Features

- *32 Channels*
- *80 KHz Bandwidth*
- *Individual 24-bit ADCs Per Channel*
- *104 dB SNR*
- *+/- 1.25, 2.5, 10.0 V Input Ranges*
- *Three Gigabit Ethernet Interfaces*
- *Embedded Pentium Class PC board*
- *AC, DC, IPC, Strain Input Options*
- *Continuous Recording Capability*
- *Multiple Variants Including Tape & Internal RAID*
- *Data Can Be Archived To Internal AIT3 Drive*
- *Sony SIR 1000 / Teac RD Series Compatible*



Overview

Eagle is a new data acquisition system designed to provide a world class rack mounted solution for medium channel count dynamic data recording, and real time monitoring requirements. Eagle is particularly suited to applications close to the test vehicle with a rugged 19" rack mount chassis.

Eagle may be operated in a standalone mode as a mobile acquisition system (with screen & keyboard fitted) or as part of a larger remotely controlled acquisition system.

Eagle features 32 analogue input channels:

- 24 bit sigma delta A to D converter per channel
- Synchronous sample rates 5-200 kHz (effective 80 kHz bandwidth)
- All inputs are configurable for AC, DC, ICP or Tachometer signals
- Each channel includes selectable ranges up to +/- 1.25, 2.5 or 10 volts.
- Synlink interface to allow multi-unit operation
- < 5kg weight.
- Three variants
 - No Data Disk (all data via Ethernet in real-time)
 - 500 GByte RAID0 Data Disk
 - 72 GByte Fast SCSI Data Disk + Sony AIT3 tape for instant archiving.

Eagle Compatibility

Eagle is compatible with all existing HGL Dynamics systems. The software used to drive the Eagle is identical to that used in current Hawk solutions, and the data produced are identical in format. The Eagle can also provide recorded data in Sony SIR1000 format and TEAC RD series format if required.

Eagle Signal Conditioning

- Eagle will be available with integrated signal conditioning in Q3 2006. The conditioning module will include:
 - ⇒ 1/4, 1/2 & full bridge strain gauges
 - ⇒ Constant Current / Voltage for dynamic strain gauges
 - ⇒ 7 gain ranges
 - ⇒ 4 filter ranges

Software

HGL Dynamics can supply Eagle with the following software options:

- Programmers API - allows basic control and data collection from the hardware
- Standard Acquisition and Monitoring Pack
- Rotating Machinery Pack
- Basic Modal Analysis Pack (Summer 2006)

Data Formats

Eagle supports a number of data formats as standard:

- HGL standard data format
- HGL open tape format (new for Spring 2006)
- SIR 1000
- Teac RD series
- DSPCon DATX format
- EDAS raw data format



Eagle can completely replace the functionality of the popular Sony SIR

1000 (or Teac RD series) tape recorders, providing access to full real-time monitoring whilst providing a secure tape backup of the acquired data. At under 5kg, Eagle is also lighter than equivalent tape recorders.

Evaluation

HGL Dynamics is so convinced that the Eagle will revolutionise your medium sized data acquisition needs that it is offering to provide a unit to all potential clients for up to 3 months on an evaluation basis. Please call your local HGL representative for more details.

Pricing and Availability

Eagle is being released for sales and evaluation in May 2006.

Eagle will be available for lease also from May 2006.

Please contact your local HGL representative for more details.



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