EAGLE

32 Channel Rack Mount Acquisition

- *32 Channels*

- *80 KHz Bandwidth*

- *24-bit ADCs Per Channel*

- *104 dB SNR*

- *+/- 1.25, 2.5, 10.0 V Input Ranges*

- *Three Gigabit Ethernet Interfaces*

- *Embedded Quad Core 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 article 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.

- Synclink interface to allow multi-unit operation

- < 5kg weight.

- Three variants:

    ⇒ No Data Disk (all data via Ethernet in real-time)

    ⇒ 320 GByte

    ⇒ 72 GByte Fast SCSI Data Disk + Sony AIT3 tape for instant archiving.

Eagle Compatibility

Eagle is compatible with all existing HGL Dynamics systems delivering data in HGL standard format. The Eagle can also provide data in Sony SIR1000 format and TEAC RD series format if required.

FS72209

Email: info@hgl-dynamics.com
Web: www.hgl-dynamics.com

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Eagle Signal Conditioning

- Eagle is available with integrated signal conditioning. The conditioning modules 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

Data Formats

Eagle supports a number of data formats as standard:

- HGL standard data format
- HGL open tape format
- SIR 1000
- Teac RD series
- DSPC on DATX format
- EDAS raw data format

Eagle can completely replace the functionality of the Sony SIR 1000 or Teac RD series tape recorders, providing access to full real-time monitoring with 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 completely satisfy your medium sized data acquisition needs that it is offering to provide a unit to potential clients for up to 1 month on an evaluation basis *(subject to qualifying criteria)*.

Pricing and Availability

Eagle is now available for purchase or lease.
Please contact HGL at the locations below.