

## Gigabit Avionics Data Acquisition Unit



### Description

The HSAVDAU-2004/2006 unit is designed to accept up to four (six) data acquisition cards that support various interfaces. The unit includes an Overhead (OVH-300) processor card, and a Time / CAIS Bus Mezzanine (RCI-305) card. The HSAVDAU-2004/2006 accepts IRIG-B AC or DC time for purposes of supporting IRIG chapter 4 for selected data via the CAIS bus as well as IRIG chapter 10 for recorded data time tagging. The unit can also operate as a CAIS remote data acquisition unit. This capability allows the user to capture selected data from incoming data sources (such as PCM, 1553, IEEE-1394b, Fibre Channel, Etc.), as well as providing Cards/Unit/ Recorder status to a CAIS controller for transmission of flight safety data.

### Features

- Airborne Data Multiplexer for use in a distributed data multiplexer system with the AIM-2004/2005R/2006 product
- Various chassis sizes available:
  - HSAVDAU-2004 Accepts 4 I/O Cards
  - HSAVDAU -2006 Accepts 6 I/O Cards
- The Unit accepts various types of I/O cards:
  - Dual 2.125 Gbps Optical Fibre Channel card
  - Quad 400 Mbps IEEE 1394b FireWire card
  - Quad 20 Mbps PCM with optional Dual Bit Sync card
  - Quad MIL STD 1553 card
  - Dual 1.0625 Gbps Electrical Fibre Channel card
  - Quad Audio / Video MPEG-2 card
  - Quad 10/100 BaseT Ethernet card
  - 18-bit General Purpose I/O card
- Operates as a slave unit to AIM-2004/2006 unit
  - Required when more I/O slots are needed than are available in the AIM-200X chassis.
  - Provides high speed distributed multiplexing capability
  - Multiplexed data is provided to the AIM-2004/2005R/2006 via 1.0625 Gbps Electrical Fibre Channel port
  - Multiple HSAVDAUs can operate with a single AIM-2004/2005R/2006
- Multiplexing capability of up to 100 MBps
- Accepts IRIG-B AC or DC Time
- Provides CAIS Bus Interface
  - Single point programming via CAIS or RS-232/422
  - Operates as a CAIS DAU remote unit
  - Supports Selected data from all interface cards for transmission of flight safety data to CAIS Bus Controller
- Compatible with TTC's CAIS Bus products: AIC, CDAU, MCDAU or SCDAU
- Includes Windows 2000/XP compatible software
- Ruggedized Airborne Enclosure

### Applications

- Flight Test Instrumentation System
- Vehicle Development

Revision 02/05/2009

### HSAVDAU-2004/2006 Datasheet

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