

### Airborne Instrumentation Multiplexer with Built-in Solid State Recorder



#### Description

The MUX-3003/3003R/3005R unit is designed to accept multiple data acquisition cards that support various interfaces and a plug-in solid state media cartridge. The unit includes an Overhead processor card and a Time Mezzanine card. Acquired input data is multiplexed and recorded on the optional media cartridge. The unit accepts IRIG-B AC or DC time or GPS Antenna for purposes of supporting IRIG chapter 10 for recorded data time tagging. For the MUX-300X(R) units, the removable cartridge supports the Standard IEEE 1394b high-speed communications format.

#### Features

- Airborne Data Multiplexer / Recorder utilizing various low and high speed interfaces
- Various chassis sizes available:
  - MUX-3003 Accepts 3 I/O Cards
  - MUX-3003R Accepts 3 I/O Cards
  - MUX-3005R Accepts 5 I/O Cards
- Various Plug-in Cards available:
  - 4 or 8 channel 20 Mbps PCM card
  - 4 or 8 channel MIL STD 1553 card
  - 2 channel 1.0625 Gbps Electrical Fibre Channel Card
  - 2 or 3 channel Audio / Video MPEG-2 Card
  - 16 channel ARINC-429 Card
  - 4 channel 10/100 BaseT Ethernet Card
  - 2 channel 400 Mbsp IEEE 1394b Card
  - WMUX Bus per 16PP194 and dual MIL STD 1553 I/F card
- Sustained Record Rate of up to 20 Mbytes per sec
- Plug-in Solid State Recorder
- Accepts XRMM-1XXX Solid State Media Cartridges with media capacities up to 128 Gbytes
- Compatible with IRIG Chapter 10 format
- Accepts IRIG-B AC / DC Time or GPS Antenna
- Provides six discrete inputs (GPI) and six discrete outputs (GPO) for recorder control and status
- Provides two RS-232/422 and one 10/100 BaseT Ethernet ports
- Ruggedized Airborne Enclosure

#### Applications

- Flight Test Instrumentation System
- Vehicle Development

Revision 05/11/2015

#### MUX-3003(R)/3005(R) Datasheet

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Approved for Public Release 16-S-1042



CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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