

Airborne Instrumentation Multiplexer with Built-in Solid-State Recorder



Description

The MUX-3003(R)/3005R/3006 unit is designed to accept multiple data acquisition cards that support various interfaces and a solid-state recorder module. The unit includes an overhead (XOVH-300) processor card, and a time mezzanine card. Acquired input data is multiplexed and recorded on the built-in media cartridge for the MUX-3003R and 3005R, or on external media in the case of the MUX-3003 and 3006. The unit accepts IRIG-B AC or DC time to support IRIG Chapter 10 for recorded data timestamping. The removable cartridge supports the 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 & recorder
 - MUX-3005R accepts 5 I/O cards & recorder
 - MUX-3006 accepts 6 I/O cards
- Various plug-in cards available:
 - 4 and 8-channel 20 Mbps PCM card
 - 4 and 8-channel MIL STD 1553 card
 - Dual-port 1.0625 Gbps electrical Fibre Channel card
 - 2 and 3-channel audio/video card
 - 1-channel 16PP194 and MIL STD 1553 channel card
 - 2-channel Fire Wire IEEE-1394b card
 - 16-channel ARINC-429 card
 - Adaptable real-time multiplexer card
- Built-in solid-state recorder for MUX-3003R and MUX-3005R
 - Standard memory cartridge capacity 8 GB to 128 GB
 - Sustained record rate of up to 20 MBps
- 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
- Includes Windows 2000/XP software
- Ruggedized airborne enclosure

Applications

- Flight test instrumentation system
- Vehicle development

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MUX-3003(R)/3005R/3006 Datasheet

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