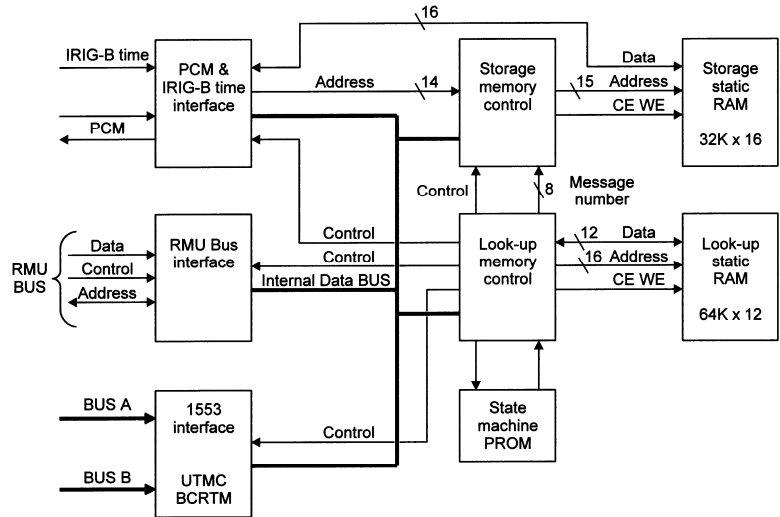


# Airborne Telemetry

## MSC1000-012 MIL-STD-1553 Bus Monitor Module Airborne Data Acquisition Products

### FEATURES

- Monitors one dual redundant MIL-STD-1553 data bus
- Accepts IRIG B time code
- Uses an external transformer to couple to the bus
- Captures up to 254 different messages
- Time code is stored with message in 10  $\mu$ S intervals



### DESCRIPTION

The MSC1000-012 is a 2 card set, 1553 Bus Monitor module which interfaces to one dual redundant MIL-STD-1553 bus. The module is a "listen only" unit which will not interfere with normal bus traffic. Using an external transformer to couple to the 1553 bus, the module selects data from the bus for insertion into the RMU PCM stream.



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## ELECTRICAL SPECIFICATIONS

### Input Characteristics (Per Channel)

- MIL-STD-1553 Bus A & B, Externally transformer coupled IRIG B Serial Time Code

### Output

- 8 or 16-bit depending upon the bits per word selected

### Miscellaneous

- A message counter is used to determine if the message has been previously read.
- The memory access controller ensures that the data in the PCM stream is the most recent and that no old and new data are mixed.
- On-board circuits break down the IRIG B time code to 10  $\mu$ S intervals and stores the 18 bits along with the data.
- Module stores the complete MIL-STD-1553 message. The PCM format determines which data is inserted into the PCM stream.

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